					DEPARTMENT	ATE OF UTA OF NATURAL F OIL, GAS A	RESOURCES	5		AMEN	FO DED REPC	RM 3		
		APP	LICATION	FOR P	PERMIT TO DRILL	-			1. WELL NAME and		R 32-8-16H			
2. TYPE C		RILL NEW WELL (() REENT	ER P&A	WELL DEEPE	N WELL	3. FIELD OR WILDCAT MONUMENT BUTTE							
4. TYPE C	F WELL	Oil '	Well	Coalbed	I Methane Well: NO				5. UNIT or COMMU	JNITIZAT GMBU (EEMENT	NAME	
6. NAME	OF OPERATOR	2			TION COMPANY				7. OPERATOR PHO		·			
8. ADDRE	SS OF OPERA				ton, UT, 84052		9. OPERATOR E-MAIL mcrozier@newfield.com							
	RAL LEASE NO		TK 5 BOX 50.	1	11. MINERAL OWNE		P 12. SURFACE OWNERSHIP							
M-21836 FEDERAL INDIAN							ATE 📵 FEE	•O	FEDERAL IN 14. SURFACE OWN	IDIAN I		43	FEE ()	
				.,										
15. ADDR	ESS OF SURF	ACE OWNER (if b	ox 12 = Tee						16. SURFACE OWN	IEK E-MA	IL (II DOX	12 = 16	ee')	
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') 18. INTEND TO COMMIN MULTIPLE FORMATIONS YES (Submit Comm								• • • • • • • • • • • • • • • • • • •	VERTICAL DI	RECTION	AL 💮	HORIZON	ITAL 📵	
20. LOC	ATION OF WE	LL		FOO'	TAGES	QTR-QTR	SEC	TION	TOWNSHIP	R/	ANGE	МЕ	RIDIAN	
LOCATIO	ON AT SURFAC	CE	2	74 FNL	1529 FEL	NWNE	3	2	8.0 S	16	5.0 E		S	
Top of U	ppermost Pro	ducing Zone	2	74 FNL	1529 FEL	NWNE	3	2	8.0 S	16	5.0 E		S	
At Total	Depth		Ġ	0 FSL	1500 FWL	SESW	3	2 8.0 S			5.0 E		S	
21. COUN		DUCHESNE		2	22. DISTANCE TO N	EAREST LEASE	E LINE (Feet)		23. NUMBER OF A	CRES IN 1		UNIT		
					25. DISTANCE TO NI (Applied For Drilling			DL	26. PROPOSED DE		TVD: 61	93		
27. ELEV	ATION - GROU	JND LEVEL		2	28. BOND NUMBER				29. SOURCE OF DE			IF APPI	LICABLE	
		5685			11/40/20	B001834	. T. C			43-7	7478			
Ct. i	11.1.01	01		304 - 1 -	Hole, Casing,			on	0		01	341 - 1 -1	147 - 1 1- 4	
String	Hole Size	Casing Size 8.625	Length 0 - 500	Weig			x Mud Wt.					Yield 1.17	Weight 15.8	
PROD	7.875	5.5	0 - 6661	20.			9.0	Prem	Class G Premium Lite High Strength			3.53	11.0	
									50/50 Poz		255	1.24	14.3	
					AT	TTACHMENT:	rs							
	VERIFY T	HE FOLLOWIN	G ARE ATT	ACHE	D IN ACCORDAN	CE WITH TH	IE UTAH OIL	AND (GAS CONSERVAT	ION GE	NERAL F	ULES		
w w	ELL PLAT OR	MAP PR <mark>EP</mark> ARED E	SY LI <mark>CEN</mark> SEE	SURV	EYOR OR ENGINEER	₹ 🖊	COMPLETE D	RILLING	PLAN					
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)							FORM 5. IF O	PERATO	R IS OTHER THAN T	THE LEAS	E OWNER	L		
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)							TOPOGRAPHI	CAL MAI	•					
NAME Mandie Crozier TITLE Regulatory Tech								РНОІ	NE 435 646-4825					
SIGNATURE DATE 09/14/2011								EMA1	L mcrozier@newfield	l.com				
	1 BER ASSIGN 1350957(Broosefill									
								Po	ermit Manager					

Newfield Production Company Greater Monument Butte Unit 2-32-8-16H NW/NE Section 32, T8S, R16E Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta surface
Green River 1,722'
Garden Gulch member 4,243'

TD 6,193' TVD / 11,539' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline 557' (water)
Green River 4,243' - 6,193' (oil)

3. Pressure Control

Section BOP Description

Surface No control

Production The BOP and related equipment shall meet the minimum requirements of Onshore

Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc

for a 2M system.

A 2M BOP system will consist of 2 ram preventers (double or two singles), and a rotating head. A choke manifold rated to at least 2,000 psi will be used.

4. Casing

Degawintion	I	nterval	Weight	Grade	Coun	Pore Press @	MW @	Frac Grad	Safety Factors			
Description	Тор	Bottom (TVD/MD)	(ppf)	Grade	Coup	Shoe	Shoe	@ Shoe	Burst	Collapse	Tension	
Surface	0'	500'	24	J-55	STC	8.33	8.33	12	2,950	1,370	244,000	
8 5/8		300	24	J -33	SIC	0.33	0.33	12	10.52	8.61	20.33	
Production	0'	6,347'	20	N-80	LTC	8.33	9.0		9,190	8,830	428,000	
5 1/2	U	6,661'	20	14-60	LIC	0.33	9.0		4.35	3.78	3.37	
Production	6,661'	6,193'	11.6	P-110	LTC	8.33	9.0		10,690	7,560	279,000	
4 1/2	0,001	11,539'	11.0	F-110	LIC	0.33	9.0		5.18	3.32	4.50	

A tapered string of production casing will be run. A 7-7/8" hole will be drilled for the 5-1/2" casing in the vertical and curve sections of the well. A 6-1/8" hole will be drilled for the 4-1/2" casing in the lateral section of the well.

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient All tension calculations assume air weight of casing Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight	Yield
300	Hole Size	rm	Stuffy Description	sacks	OII excess	(ppg)	(ft ³ /sk)
Surface	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello	237	15%	15.8	1.17
Surrace	12 1/4	300	Flake	203	1370	2	1.17
Production	7 7/8	4.243'	Premium Lite II w/ 3% KCl + 10%	845	15%	11.0	3.53
Lead	7 7/6	4,243	bentonite	240	15%	11.0	3.03
Production	7 7/8	1,584'	50/50 Poz/Class G w/ 3% KCl + 2%	316	15%	14.3	1.24
Tail	1 1/8	1,364	bentonite	255	15%	14.5	1.24

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

A system of open hole packers will be used to isolate frac stages in the lateral. Open hole packers will be used to isolate the vertical portion of the well from the lateral. A port collar will be used to cement the vertical portion of the well.

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 15% excess.

6. Type and Characteristics of Proposed Circulating Medium

Interva	I	Descri	ption	1

Surface - 500'

An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

500' - TD

A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 9.0 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from KOP to the base of the surface casing. A compensated neutron/formation density log will be run from KOP to

the top of the Garden Gulch formation. A cement bond log will be run from KOP to the cement top behind the production casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.43 psi/ft gradient.

$$6,347' \text{ x} \quad 0.43 \quad psi/ft = 2749 \quad psi$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

The well will be drilled vertically to a kick-off point of 5,827'

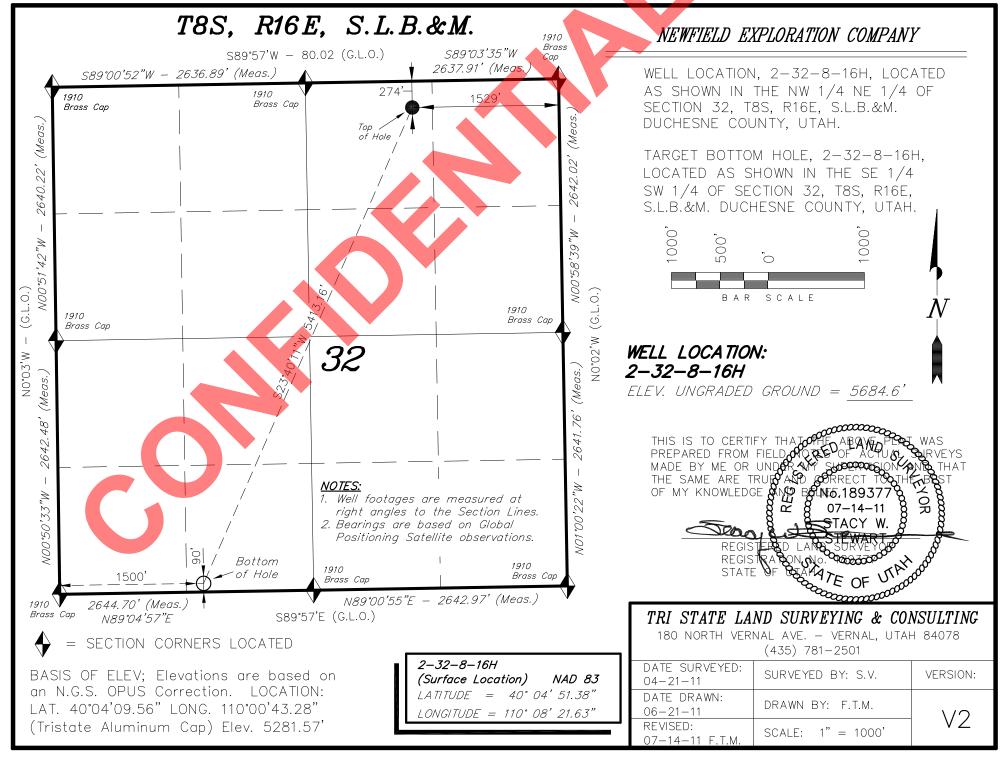
Directional tools will then be used to build to 91.81 degrees inclination.

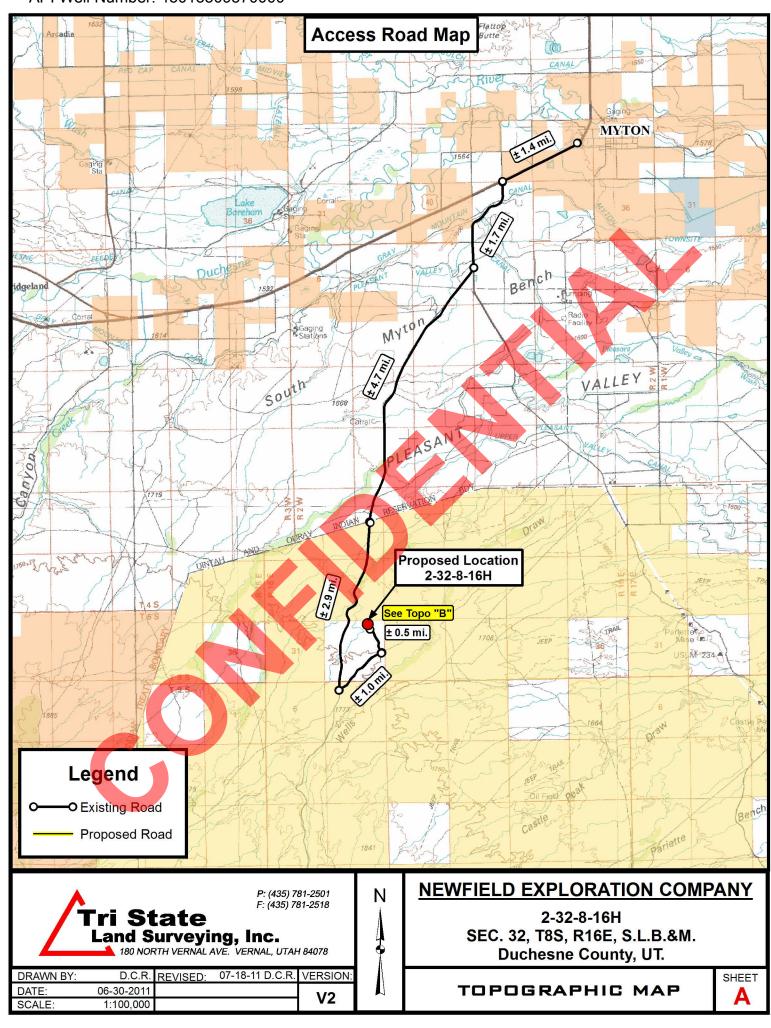
The hole size in the lateral will be reduced to 6-1/8". The lateral will be drilled to the bottomhole location shown on the plat.

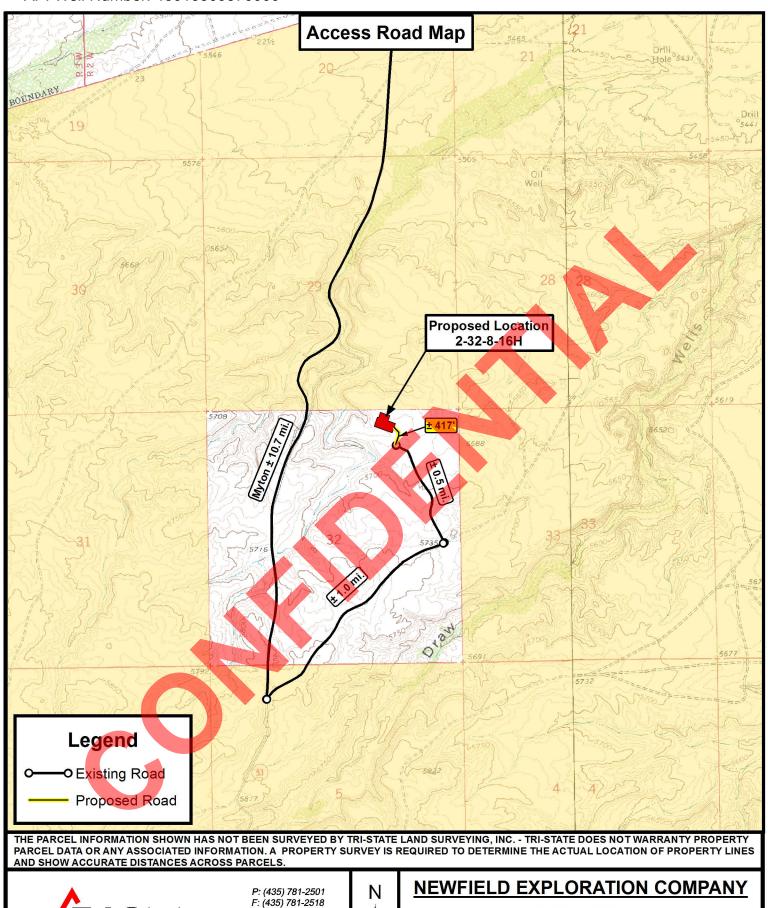
A tapered string of production casing will be run in the well, with 5-1/2" casing in the vertical and curve portions and 4-1/2" casing in the lateral portion.

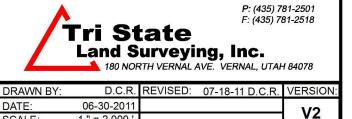
A system of open hole packers will be used to provide multi-stage frac isolation in the lateral.

A set of open hole packers will be placed at kick-off point to isolate the lateral. A port cementing collar will placed above the packers and will be used to cement the vertical portion of the well bore.









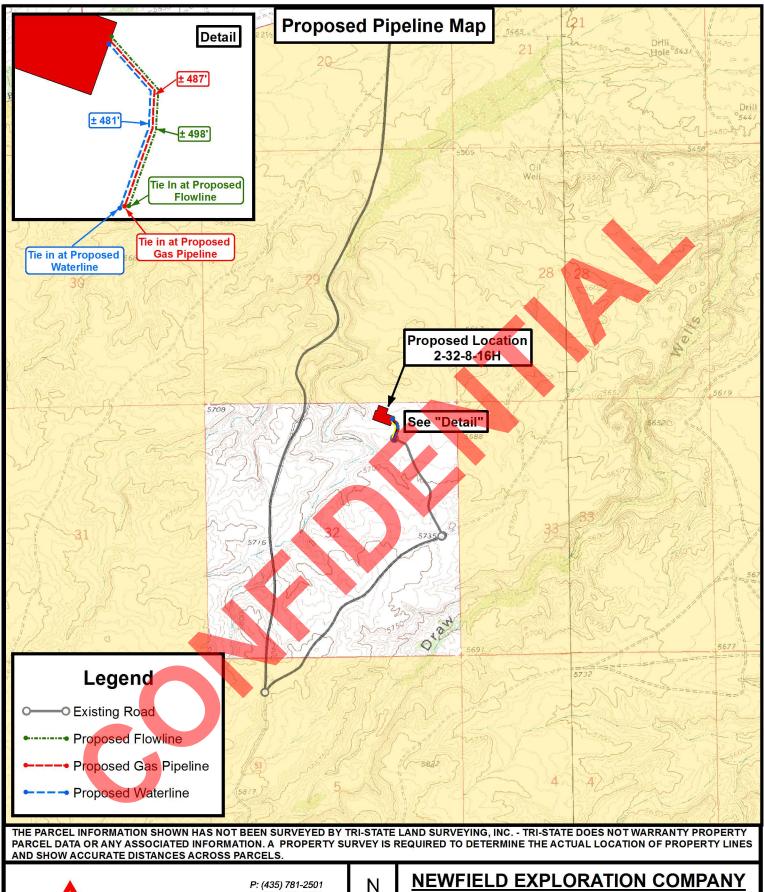
SCALE

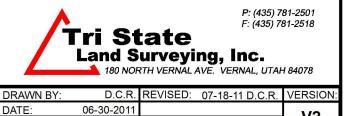
1 " = 2,000

2-32-8-16H SEC. 32, T8S, R16E, S.L.B.&M. **Duchesne County, UT.**

TOPOGRAPHIC MAP







SCALE

1 " = 2,000

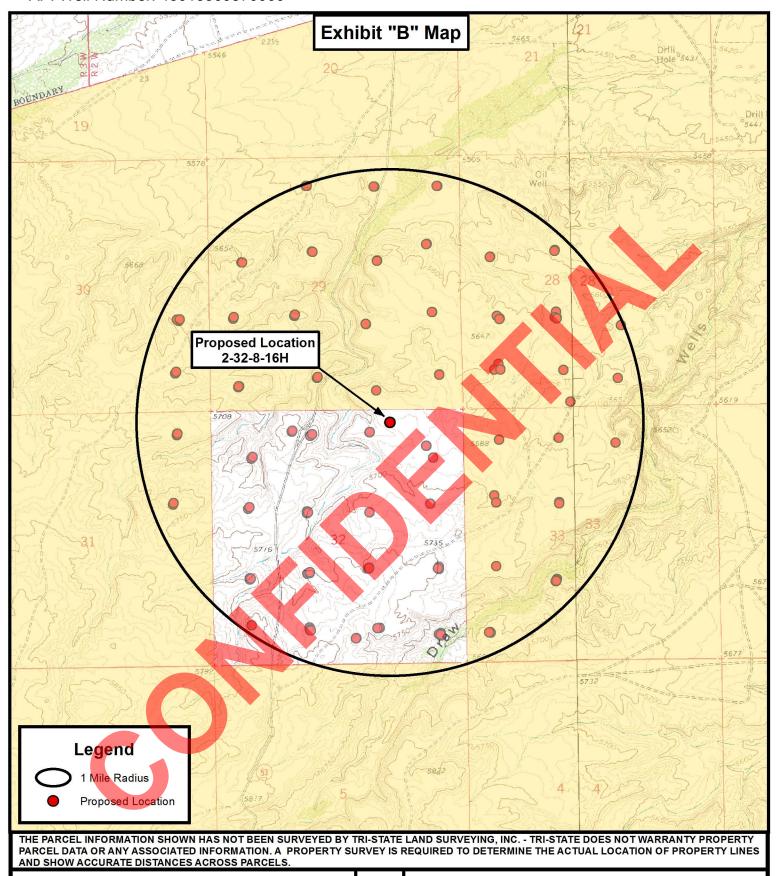
V2

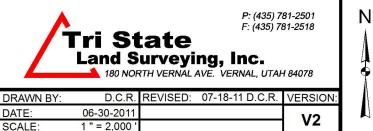
NEWFIELD EXPLORATION COMPANY

2-32-8-16H SEC. 32, T8S, R16E, S.L.B.&M. **Duchesne County, UT.**

TOPOGRAPHIC MAP

SHEET C





NEWFIELD EXPLORATION COMPANY

2-32-8-16H SEC. 32, T8S, R16E, S.L.B.&M. Duchesne County, UT.

TOPOGRAPHIC MAP



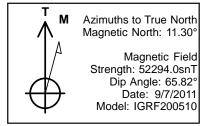


NEWFIELD Newfield Production Company

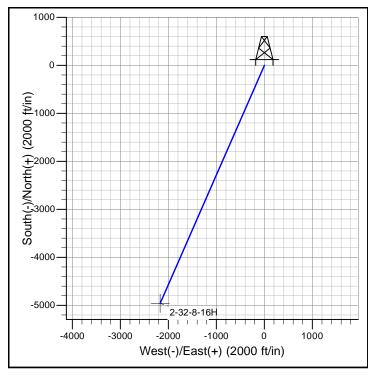
Project: Uinta Basin

Site: GMBU 2-32-8-16H Well: GMBU 2-32-8-16H

Wellbore: Wellbore #1
Design: Design #1







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> E		l JNI	1 H	ΔП	•

TVD VSect Target Sec MD Inc Azi +N/-S +E/-W Dleg TFace 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.0 0.0 0.00 5826.5 0.0 0.0 0.00 0.00 0.0 0.00 6347.1 -492.1 -215.7 11.00 203.67 537.3 6661.1 91.81 203.67 -4957.8 -2173.2 0.00 0.00 5413.2 2-32-8-16H 6193.0

PROJECT DETAILS: Uinta Basin

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: Utah Central Zone

System Datum: Mean Sea Level



Uinta Basin GMBU 2-32-8-16H GMBU 2-32-8-16H

Wellbore #1

Plan: Design #1

Standard Planning Report

07 September, 2011

Newfield Exploration

Planning Report

Database: EDM 5000.1 Single User Db Company: **Newfield Production Company**

Project: Uinta Basin GMBU 2-32-8-16H Site: Well: GMBU 2-32-8-16H Wellbore: Wellbore #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:** Site GMBU 2-32-8-16H

RKB @ 5697.0ft RKB @ 5697.0ft

True

Minimum Curvature

Project Uinta Basin

Design:

US State Plane 1983 Map System:

North American Datum 1983 Geo Datum:

Design #1

Map Zone: **Utah Central Zone** System Datum: Mean Sea Level

GMBU 2-32-8-16H Site

Northing: 2,194,900.21 m Site Position: Latitude: From: Lat/Long Easting: 616,039.41 m Longitude:

Position Uncertainty: 0.0 ft **Slot Radius:** 0.000 in **Grid Convergence:**

110° 8' 21.630 W 0.87°

40° 4' 51.380 N

Well GMBU 2-32-8-16H

Well Position +N/-S 0.0 ft 2,194,900.21 m 40° 4' 51.380 N Northing: Latitude: 616,039.41 m +E/-W 0.0 ft Easting: Longitude: 110° 8' 21.630 W

Position Uncertainty 0.0 ft Wellhead Elevation: Ground Level: 5,685.0 ft

Wellbore #1 Wellbore **Model Name** Field Strength **Declination Magnetics Sample Date Dip Angle** (°) (nT) 11,30 52.294 IGRF200510 9/7/2011 65.82

Design Design #1

Audit Notes: Phase: Version: PROTOTYPE Tie On Depth: 0.0

Vertical Section: Depth From (TVD) +N/-S +E/-W **Direction** (ft) (ft) (ft) (°) 0.0 0.0 203.67 0.0

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Depth +E/-W **Azimuth** +N/-S Rate Rate Rate **TFO** (°/100ft) (°/100ft) (°/100ft) (ft) (ft) (ft) **Target** (°) (ft) (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 5,826.5 0.00 0.00 5,826.5 0.0 0.0 0.00 0.00 0.00 0.00 6,661.1 91.81 6,347.1 -492.1 -215.7 11.00 11.00 0.00 203.67 11,539.4 203.67 6,193.0 0.00 0.00 0.00 2-32-8-16H 91.81 -4,957.8-2,173.20.00

Newfield Exploration

Planning Report

Database: EDM 5000.1 Single User Db Company: Newfield Production Company

 Project:
 Uinta Basin

 Site:
 GMBU 2-32-8-16H

 Well:
 GMBU 2-32-8-16H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: Survey Calculation Method: Site GMBU 2-32-8-16H RKB @ 5697.0ft RKB @ 5697.0ft

True Minimum Curvature

Design:	Design #1								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Newfield Exploration

Planning Report

EDM 5000.1 Single User Db Database: Newfield Production Company Company:

Project: Uinta Basin GMBU 2-32-8-16H Site: Well: GMBU 2-32-8-16H Wellbore #1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site GMBU 2-32-8-16H

RKB @ 5697.0ft RKB @ 5697.0ft

True Minimum Curvature

Wellbore: Design:	Wellbore #1 Design #1								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,826.5	0.00	0.00	5,826.5	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	8.09	203.67	5,899.8	-4.7	-2.1	5.2	11.00	11.00	0.00
6,000.0	19.09	203.67	5,996.8	-26.2	-11.5	28.6	11.00	11.00	0.00
6,100.0	30.09	203.67	6,087.6	-64.3	-28.2	70.2	11.00	11.00	0.00
6,200.0	41.09	203.67	6,168.8	-117.5	-51.5	128.3	11.00	11.00	0.00
6,300.0	52.09	203.67	6,237.4	-183.9	-80.6	200.8	11.00	11.00	0.00
6,400.0	63.09	203.67	6,290.9	-261.1	-114.5	285.1	11.00	11.00	0.00
6,500.0	74.09	203.67	6,327.4	-346.3	-151.8	378.1	11.00	11.00	0.00
6,600.0	85.09	203.67	6,345.4	-436.2	-191.2	476.3	11.00	11.00	0.00
6,661.1	91.81	203.67	6,347.1	-492.1	-215.7	537.3	11.00	11.00	0.00
6,700.0	91.81	203.67	6,345.9	-527.7	-231.3	576.2	0.00	0.00	0.00
6,800.0	91.81	203.67	6,342.7	-619.3	-271.5	676.1	0.00	0.00	0.00
6,900.0	91.81	203.67	6,339.5	-710.8	-311.6	776.1	0.00	0.00	0.00
7,000.0	91.81	203.67	6,336.4	-802.3	-351.7	876.0	0.00	0.00	0.00
7,100.0	91.81	203.67	6,333.2	-893.9	-391.8	976.0	0.00	0.00	0.00
7,200.0	91.81	203.67	6,330.1	-985.4	-432.0	1,075.9	0.00	0.00	0.00
7,300.0	91.81	203.67	6,326.9	-1,077.0	-472.1	1,175.9	0.00	0.00	0.00
7,400.0	91.81	203.67	6,323.7	-1,168.5	-512.2	1,275.8	0.00	0.00	0.00
7,500.0	91.81	203.67	6,320.6	-1,260.1	-552.3	1,375.8	0.00	0.00	0.00
7,600.0	91.81	203.67	6,317.4	-1,351.6	-592.5	1,475.7	0.00	0.00	0.00
7,700.0	91.81	203.67	6,314.3	-1,443.1	-632.6	1,575.7	0.00	0.00	0.00
7,800.0	91.81	203.67	6,311.1	-1,534.7	-672.7	1,675.6	0.00	0.00	0.00
7,900.0	91.81	203.67	6,308.0	-1,626.2	-712.8	1,775.6	0.00	0.00	0.00
8,000.0	91.81	203.67	6,304.8	-1,717.8	-753.0	1,875.5	0.00	0.00	0.00
8,100.0	91.81	203.67	6,301.6	-1,809.3	-793.1	1,975.5	0.00	0.00	0.00
8,200.0	91.81	203.67	6,298.5	-1,900.8	-833.2	2,075.4	0.00	0.00	0.00
8,300.0 8,400.0 8,500.0 8,600.0 8,700.0	91.81 91.81 91.81 91.81	203.67 203.67 203.67 203.67 203.67	6,295.3 6,292.2 6,289.0 6,285.8 6,282.7	-1,992.4 -2,083.9 -2,175.5 -2,267.0 -2,358.6	-873.4 -913.5 -953.6 -993.7 -1,033.9	2,175.4 2,275.3 2,375.3 2,475.2 2,575.2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
8,800.0	91.81	203.67	6,279.5	-2,450.1	-1,074.0	2,675.1	0.00	0.00	0.00
8,900.0	91.81	203.67	6,276.4	-2,541.6	-1,114.1	2,775.1	0.00	0.00	0.00
9,000.0	91.81	203.67	6,273.2	-2,633.2	-1,154.2	2,875.0	0.00	0.00	0.00
9,100.0	91.81	203.67	6,270.0	-2,724.7	-1,194.4	2,975.0	0.00	0.00	0.00
9,200.0	91.81	203.67	6,266.9	-2,816.3	-1,234.5	3,074.9	0.00	0.00	0.00
9,300.0	91.81	203.67	6,263.7	-2,907.8	-1,274.6	3,174.9	0.00	0.00	0.00
9,400.0	91.81	203.67	6,260.6	-2,999.3	-1,314.7	3,274.8	0.00	0.00	0.00
9,500.0	91.81	203.67	6,257.4	-3,090.9	-1,354.9	3,374.8	0.00	0.00	0.00
9,600.0	91.81	203.67	6,254.3	-3,182.4	-1,395.0	3,474.7	0.00	0.00	0.00
9,700.0	91.81	203.67	6,251.1	-3,274.0	-1,435.1	3,574.7	0.00	0.00	0.00
9,800.0	91.81	203.67	6,247.9	-3,365.5	-1,475.3	3,674.6	0.00	0.00	0.00
9,900.0	91.81	203.67	6,244.8	-3,457.1	-1,515.4	3,774.6	0.00	0.00	0.00
10,000.0	91.81	203.67	6,241.6	-3,548.6	-1,555.5	3,874.5	0.00	0.00	0.00
10,100.0	91.81	203.67	6,238.5	-3,640.1	-1,595.6	3,974.5	0.00	0.00	0.00
10,200.0	91.81	203.67	6,235.3	-3,731.7	-1,635.8	4,074.5	0.00	0.00	0.00
10,300.0	91.81	203.67	6,232.1	-3,823.2	-1,675.9	4,174.4	0.00	0.00	0.00
10,400.0	91.81	203.67	6,229.0	-3,914.8	-1,716.0	4,274.4	0.00	0.00	0.00
10,500.0	91.81	203.67	6,225.8	-4,006.3	-1,756.1	4,374.3	0.00	0.00	0.00

Newfield Exploration

Planning Report

Database: Company:

Design:

EDM 5000.1 Single User Db **Newfield Production Company**

Project: Uinta Basin GMBU 2-32-8-16H Site: GMBU 2-32-8-16H Well: Wellbore #1 Wellbore: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site GMBU 2-32-8-16H

RKB @ 5697.0ft RKB @ 5697.0ft

True

615,400.08

40° 4' 2.381 N 110° 8' 49.585 W

Minimum Curvature

Р	lan	nec	1 S	ıırv	ev

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.0	91.81	203.67	6,222.7	-4,097.8	-1,796.3	4,474.3	0.00	0.00	0.00
10,700.0	91.81	203.67	6,219.5	-4,189.4	-1,836.4	4,574.2	0.00	0.00	0.00
10,800.0	91.81	203.67	6,216.4	-4,280.9	-1,876.5	4,674.2	0.00	0.00	0.00
10,900.0	91.81	203.67	6,213.2	-4,372.5	-1,916.7	4,774.1	0.00	0.00	0.00
11,000.0	91.81	203.67	6,210.0	-4,464.0	-1,956.8	4,874.1	0.00	0.00	0.00
11,100.0	91.81	203.67	6,206.9	-4,555.6	-1,996.9	4,974.0	0.00	0.00	0.00
11,200.0	91.81	203.67	6,203.7	-4,647.1	-2,037.0	5,074.0	0.00	0.00	0.00
11,300.0	91.81	203.67	6,200.6	-4,738.6	-2,077.2	5,173.9	0.00	0.00	0.00
11,400.0	91.81	203.67	6,197.4	-4,830.2	-2,117.3	5,273.9	0.00	0.00	0.00
11,500.0	91.81	203.67	6,194.2	-4,921.7	-2,157.4	5,373.8	0.00	0.00	0.00
11,539.4	91.81	203.67	6,193.0	-4,957.8	-2,173.2	5,413.2	0.00	0.00	0.00

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)		Northing (m)	sting m)	Latitude	Longitude	
						$\overline{}$					

-2,173.2 2,193,379.18

2-32-8-16H plan hits target centerPoint 0.00

0.00

6,193.0

-4,957.8

NEWFIELD PRODUCTION COMPANY GMBU 2-32-8-16H SHL: NW/NE SECTION 32, T8S, R16E BHL: SE/SW SECTION 32, T8S, R16E DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU 2-32-8-16H located in the NW¹/₄ NE¹/₄ Section 32, T8S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed southwesterly – 9.3 miles to it's junction with an existing road to the northeast; proceed northeasterly – 1.0 miles \pm to it's junction with an existing road to the northwest; proceed northwesterly – 0.5 miles \pm to it's junction with the beginning of the proposed access road to the northeast; proceed in a northeasterly direction along the proposed access road – 417' \pm to the proposed well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

Approximately 417' of access road is proposed. See attached Topographic Map "B".

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to **EXHIBIT B**.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District Water Right: 43-7478

Neil Moon Pond

Water Right: 43-11787

Maurice Harvey Pond Water Right: 47-1358

Newfield Collector Well

Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy

District).

There will be no water well drilled at this site

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. PLANS FOR RESTORATION OF SURFACE:

a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from

the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah.

12. **OTHER ADDITIONAL INFORMATION:**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit #U-01-MQ-0046s 2/28/01. Paleontological Resource Survey prepared by, Wade E. Miller, 9/6/11.

Newfield Production Company requests 417' of planned access road be granted. **Refer to Topographic Map "B".** Newfield Production Company requests 487' of surface gas line be granted. Newfield Production Company requests 481' of buried water line be granted.

It is proposed that the disturbed area will be 60' wide to allow for construction of the proposed access road, a 10" or smaller gas gathering line, a 4" poly fuel gas line, a buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. The planned access road will consist of a 20' permanent running surface (10' either side of the centerline) crowned and ditched in order to handle any run-off from any precipitation events that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be turnouts as needed along this road to allow for increases in potential traffic issues. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice form will be applied for through the State of Utah DOGM office.

Surface Flow Line

Newfield requests 498' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. Refer to Topographic Map "C" for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

<u>Clearing and Grading</u>: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

<u>Installation</u>: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

<u>Termination and Final Reclamation:</u> After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU 2-32-8-16H, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU 2-32-8-16H Newfield will use, produce,

store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. <u>LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:</u>

Representative

Name: Tim Eaton

Address: Newfield Production Company

Route 3, Box 3630 Myton, UT 84052

Telephone: (435) 646-3721

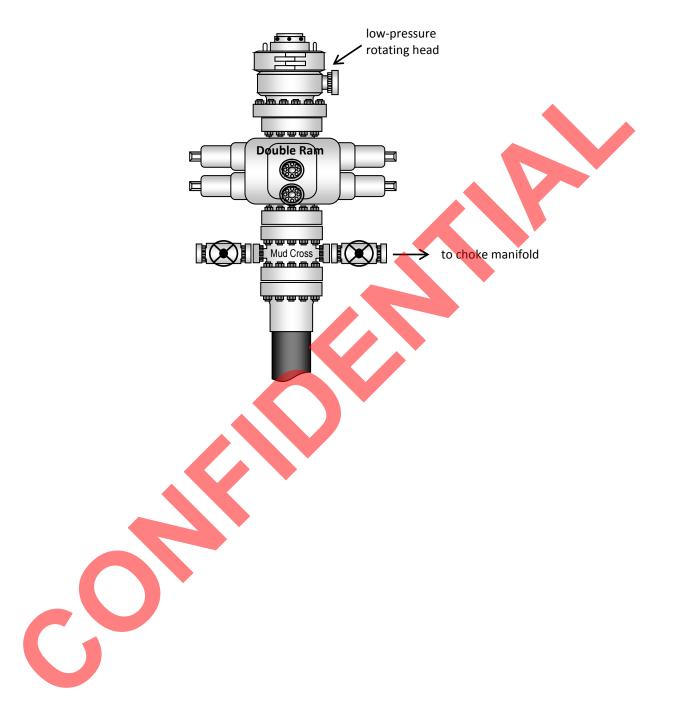
Certification

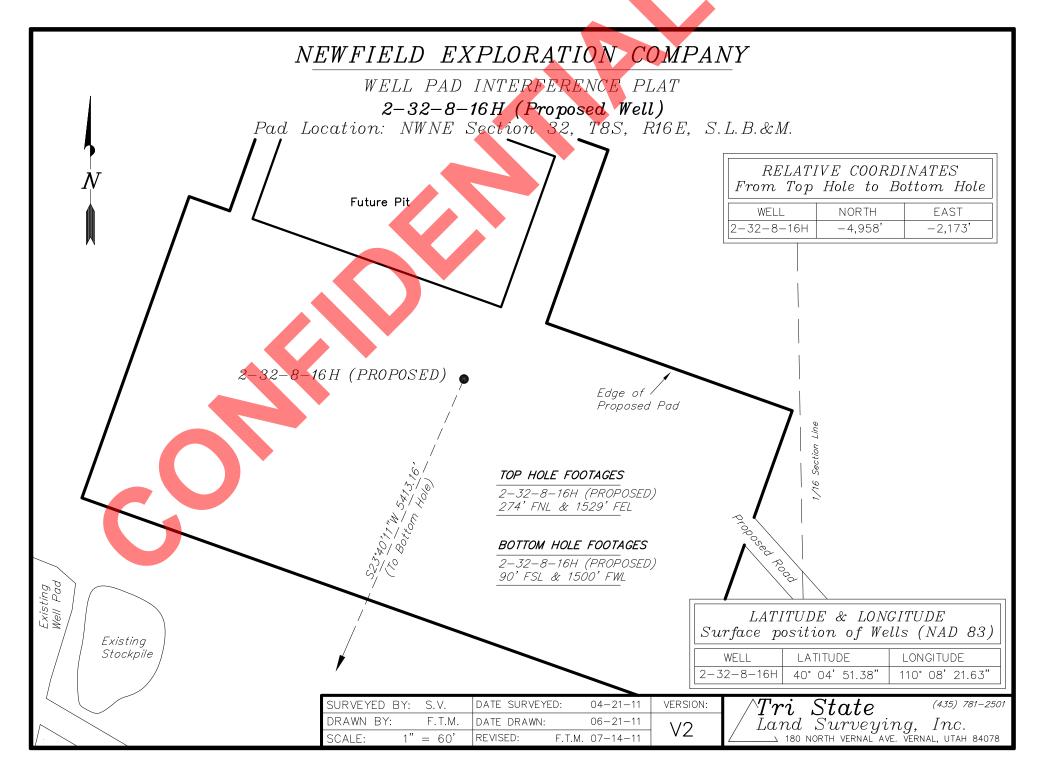
Please be advised that Newfield Production Company is considered to be the operator of well #2-32-8-16H, NW/NE Section 32, T8S, R16E, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

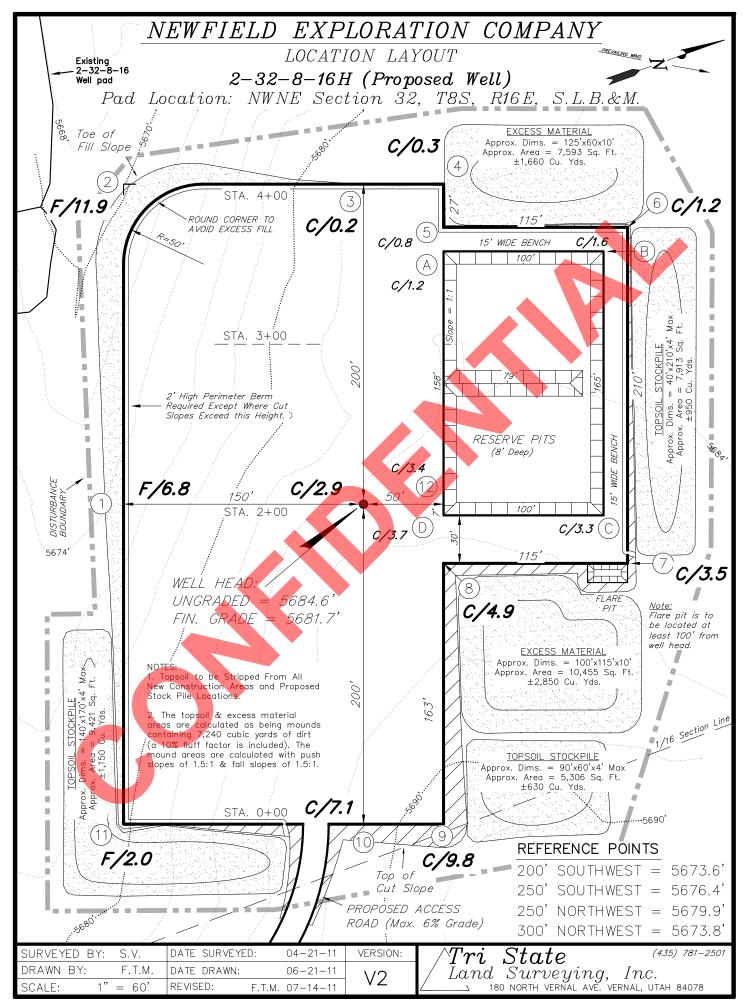
I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

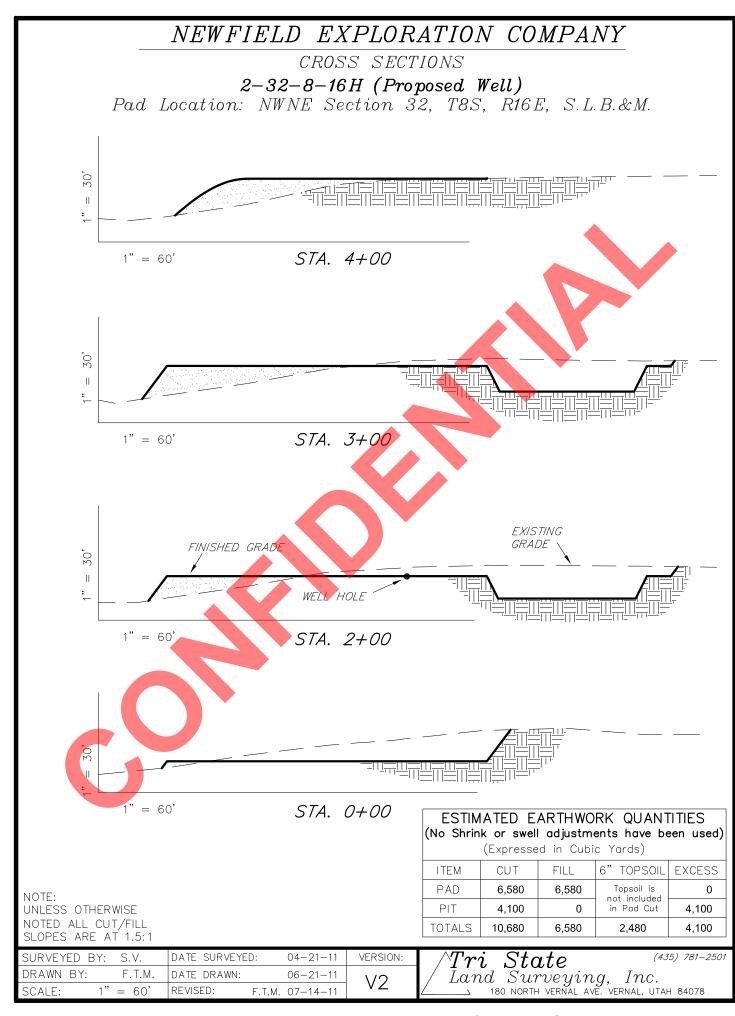
9/13/11	
Date	Mandie Crozier
	Regulatory Analyst
	Navifield Production Company

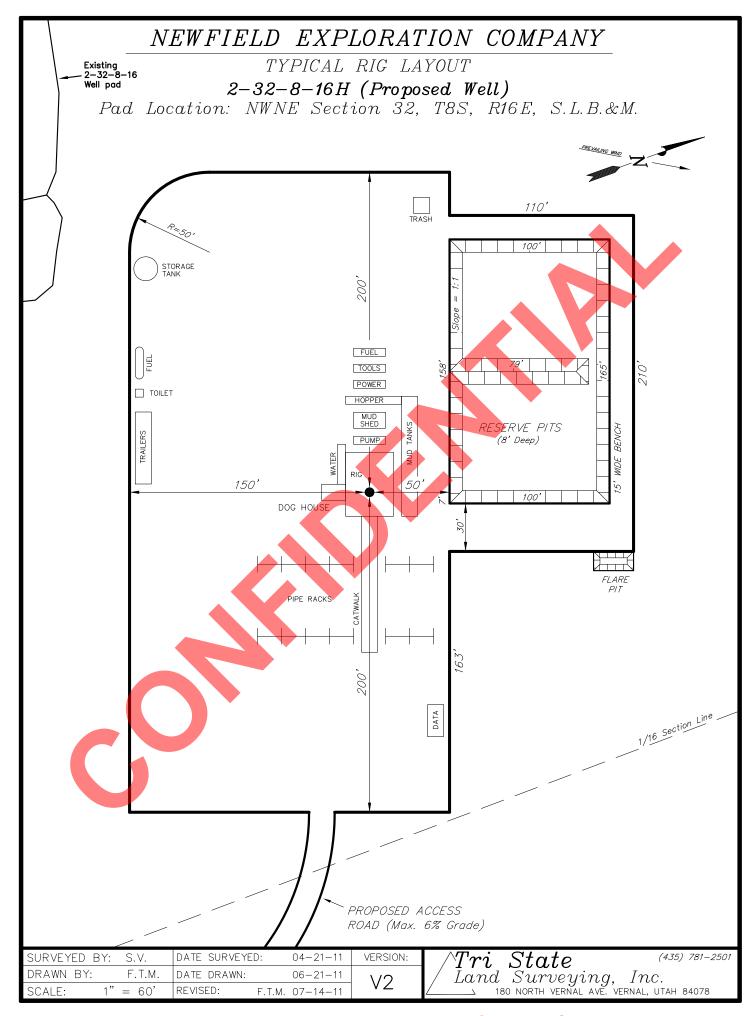
Typical 2M BOP stack configuration

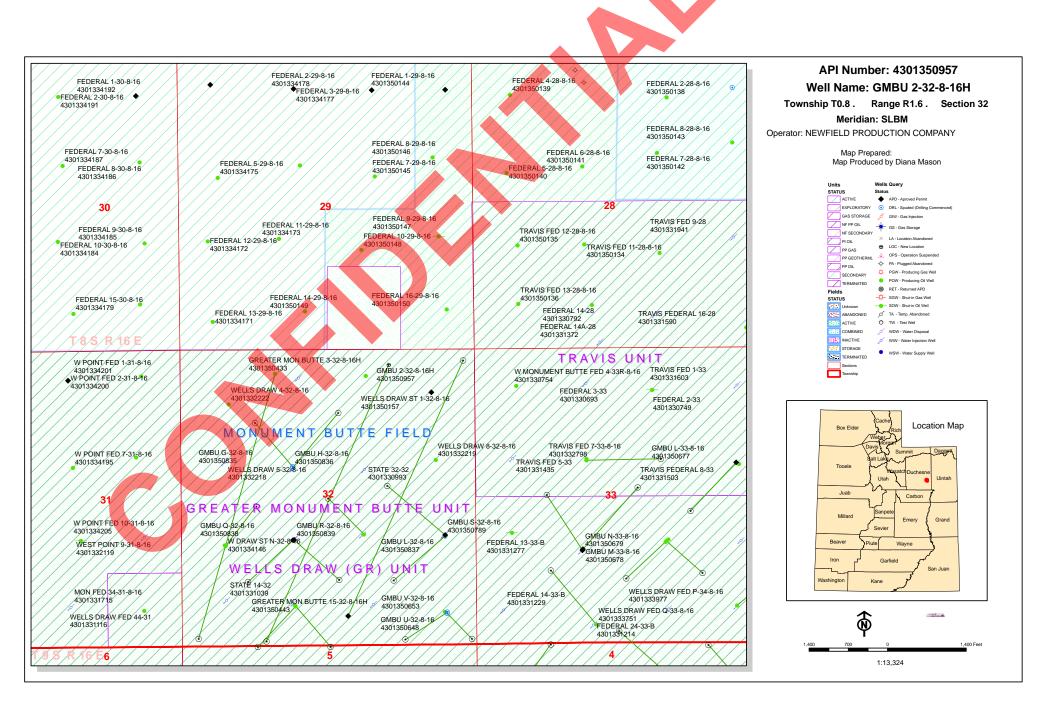












United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

September 16, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument

Butte Unit, Duchesne and Uintah Counties,

Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	PI# WELL NAME					LOCATION								
(Proposed PZ	GREEN	N RIVER)												
43-013-50957	GMBU		1			R16E								
		Lateral 1	Sec	32	T08S	R16E	0090	FSL	1500	FWL				
43-013-50958	GMBU	1A-36-8-16H												
		Lateral 1	Sec	36	T08S	R16E	0160	FSL	2100	FEL				
43-013-50959	GMBU	1-16-9-17H Lateral 1												
		Lateral I	sec	10	1095	KI/L	0100	LOT	2000	ГĽЬ				
43-013-50960	GMBU	1A-32-8-17H	Sec	32	T08S	R17E	0797	FNL	0863	FEL				
		Lateral 1	Sec	32	T08S	R17E	0220	FSL	2420	FWL				
43-013-50967	GMBU	3-32-8-17H	Sec	32	T08S	R17E	1010	FNL	1735	FWL				
		Lateral 1	Sec	32	T08S	R17E	0100	FSL	0100	FWL				
43-013-50968	GMBU	3-2-9-15Н	Sec	02	T09S	R15E	1107	FNL	1468	FWL				
		Lateral 1	Sec	02	T09S	R15E	0100	FSL	0100	FWL				
43-013-50970	GMBU	B-2-9-15	Sec	02	T09S	R15E	0641	FNL	1945	FEL				
		BHL	Sec	02	T09S	R15E	0080	FNL	1180	FEL				

Page 2

API#	WELL NAME		LOC	ATION			
(Proposed PZ	GREEN RIVER)						
43-013-50971	GMBU C-2-9-15	BHL				1961 2635	
43-013-50972	GMBU W-16-9-17	BHL	 		 	 1940 2623	
43-047-52011	GMBU 1-36T-8-17 Latera					0957 2435	

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard

DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, Date: 2011.09.16 15:48:58 -06'00'

bcc: File - Greater Monument Butte Unit Division of Oil Gas and Mining Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:9-16-11

From: Jim Davis

To: Hill, Brad; Mason, Diana

CC: Bonner, Ed; Garrison, LaVonne; mcrozier@newfield.com

Date: 10/27/2011 7:48 AM **Subject:** Newfield Well approvals

The following APDs have been approved by SITLA including arch and paleo clearance.

GMBU 1-16-9-17H (4301350959) GMBU 1A-36-8-16H (4301350958) GMBU 2-32-8-16H (4301350957) GMBU 3-2-9-15H (4301350968) GMBU 3-32-8-17H (4301350967) GMBU B-2-9-15 (4301350970) GMBU C-2-9-15 (4301350971)

Thanks.
-Jim



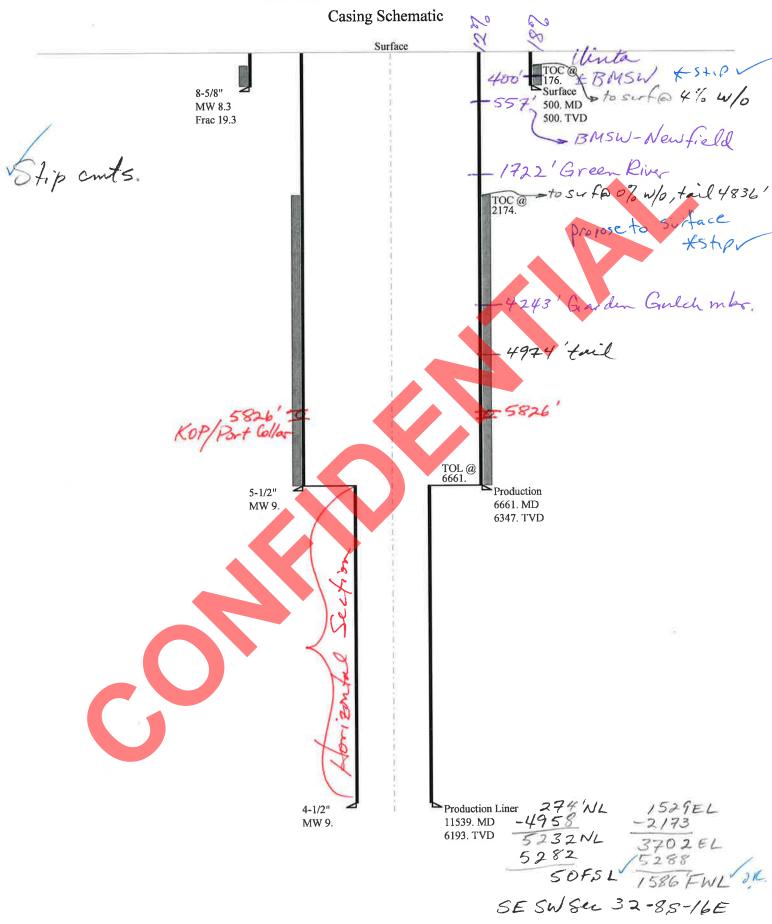
BOPE REVIEW NEWFIELD PRODUCTION COMPANY GMBU 2-32-8-16H 43013509570000

Well Name		NEWEIELD BE	PODLICTION (201	MPANY GMBU 2	22 0 161	1 424	
String		SURF	MIFAINT GIVIBO 2	-32-0-101	1430			
Casing Size(")			PROD	+	4.500	<u>. </u>	≓	
Setting Depth (TVD)		8.625	5.500	-	4.500	<u> </u>	#	
Previous Shoe Setting Dept	th (TVD)	500	6193	-	6193	<u> </u>	#	
	III (1 V D)	0	500	4	6193	<u> </u>	#	
Max Mud Weight (ppg)		8.3	9.0		9.0		4	
BOPE Proposed (psi)		0	2000	4	2000	<u></u>	╝	
Casing Internal Yield (psi)		2950	9190		10690	<u> </u>	4	
Operators Max Anticipate	d Pressure (psi)	2663	<u> </u>		8.3			
Calculations	SUR	F String		_	8.625	5 "		
Max BHP (psi)			ng Depth*M	W	216	i		
					1	BOPE	Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max	BHP-(0.12*	Setting Dept	h)	156	NO		0
MASP (Gas/Mud) (psi)	Max	BHP-(0.22*	Setting Dept	h)	= 106	NO		бок
						*Can	Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting De	epth - Previou	s Shoe Dept	th)	106	NO		
Required Casing/BOPE Te	est Pressure=				500	psi		
*Max Pressure Allowed @	Previous Casing Shoe=				0	psi	*Assı	imes 1psi/ft frac gradient
Calculations	PRO	D String			5.500	"		
Max BHP (psi)		.052*Settii	ng Depth*M	W	2898			
						BOPE	Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		k BHP-(0.12*		X		NO		
MASP (Gas/Mud) (psi)	Max	k BHP-(0.22*	Setting Dept	h)	1536	YES		ОК
				4		*Can	Full 1	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe		epth - Previou	is Shoe Dept	h)	1646	NO		Reasonable
Required Casing/BOPE Te				_	2000	psi		
*Max Pressure Allowed @	Previous Casing Shoe=				500	psi	*Assı	ımes 1psi/ft frac gradient
Calculations	S	tring		_	4.500	"		
Max BHP (psi)		_	ng Depth*M	W		i		
				_	12000	BOPE	Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max	BHP-(0.12*	Setting Dept	h)	2155	NO		
MASP (Gas/Mud) (psi)	Max	BHP-(0.22*	Setting Dept	h):	1536	YES		
					1,	1 1	Full 1	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting D	epth - Previou	s Shoe Dept	th)	2898	YES		i i
Required Casing/BOPE To	est Pressure=				2000	psi		
*Max Pressure Allowed @	Previous Casing Shoe=				6193	psi	*Assı	ımes 1psi/ft frac gradient
					1,4			
Calculations String					"			
Max BHP (psi) .052*Setting Depth*MW=					<u> </u>	DOPT	1 A .T	guete For Duilling And Catting Co. 1. (D. 119)
MASP (Gas) (psi)	M DHD (0.10*C # . D. 4)						Ade	quate For Drilling And Setting Casing at Depth?
	Max BHP-(0.12*Setting Depth)= Max BHP-(0.22*Setting Depth)=				NO	_		
MASP (Gas/Mud) (psi)	Max	м опт-(U.22*)	setting Dept	.11)		NO *Con	E-11	Exposted Programs Po Hold At Province Ch. 2
Pressure At Previous Shoe	Max RHP- 22*(Setting D.	enth - Previou	s Shoe Dent	h)	=		r uii l	Expected Pressure Be Held At Previous Shoe?
		cpm - r1cv100	is since Depi	u1)		NO ngi		
Required Casing/BOPE Test Pressure=					_[psi		

*Max Pressure Allowed @ Previous Casing Shoe= psi *Assumes 1psi/ft frac gradient



43013509570000 GMBU 2-32-8-16H



Well name:

43013509570000 GMBU 2-32-8-16H

Operator:

NEWFIELD PRODUCTION COMPANY

String type:

Surface

Project ID: 43-013-50957

Location:

DUCHESNE COUNTY

Environment:

Collapse

Mud weight: 8.330 ppg Design is based on evacuated pipe.

Minimum design factors: Collapse:

Design factor

1.125

H2S considered? Surface temperature: Bottom hole temperature: No 74 °F 81 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Burst:

Design factor

1.00

1.80 (J)

1.70 (J) 1.60 (J)

1.50 (J)

1.50 (B)

Cement top:

176 ft

Burst

Max anticipated surface

pressure: Internal gradient:

Design parameters:

440 psi

Calculated BHP

No backup mud specified.

0.120 psi/ft

500 psi

Tension: 8 Round STC:

Buttress: Premium:

Body yield:

8 Round LTC:

Tension is based on air weight. Neutral point: 437 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

6,347 ft 9.000 ppg 2,967 psi

Fracture mud wt: Fracture depth: Injection pressure:

19.250 ppg 500 ft 500 psi

Run Seq	Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter	Est. Cost
1	(ft) 500	(in) 8.625	(lbs/ft) 24.00	J-55	ST&C	(ft) 500	(ft) 500	(in) 7.972	(\$) 2573
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	216	1370	6.333	500	2950	5.90	12	244	20.34 J

Prepared

by:

Helen Sadik-Macdonald

Div of Oil Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: November 16,2011 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43013509570000 GMBU 2-32-8-16H

Operator:

NEWFIELD PRODUCTION COMPANY

Production

Project ID:

String type:

43-013-50957

Location:

DUCHESNE COUNTY

Environment:

Collapse

Design parameters:

9.000 ppg Mud weight: Design is based on evacuated pipe.

Collapse:

Design factor 1.125

Minimum design factors:

H2S considered?

No Surface temperature: 74 °F Bottom hole temperature: 163 °F

Temperature gradient: 1.40 °F/100ft Minimum section length: 100 f

Burst:

Design factor

1.00

Cement top:

2,174 ft

Burst

Max anticipated surface

No backup mud specified.

pressure: Internal gradient: Calculated BHP

1,571 psi 0.220 psi/ft

2,967 psi

Tension: 8 Round STC:

8 Round LTC: **Buttress:**

Premium:

Body yield:

1.80 (J) 1.80 (J) 1.60 (J)

1.50 (J)

1.60 (B)

Directional well information:

Kick-off point Departure at shoe: Maximum dogleg:

537 ft 11 °/100ft

Inclination at shoe:

91.8°

Tension is based on air weight.

Neutral point:

5,482 ft

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost
	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
1	6661	5.5	20.00	N-80	LT&C	6347	6661	4.653	44182
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	2967	8339	2.810	2967	9190	3.10	126.9	428	3.37 J

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: November 16,2011 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6347 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:

43013509570000 GMBU 2-32-8-16H

Operator:

NEWFIELD PRODUCTION COMPANY

String type:

Production Liner

Project ID:

43-013-50957

Location:

DUCHESNE COUNTY

Environment:

Collapse

Mud weight:

Minimum design factors: Collapse:

Design factor

H2S considered? Surface temperature: No 74 °F

9.000 ppg Design is based on evacuated pipe.

1.125 Bottom hole temperature:

161 °F

Temperature gradient:

1.40 °F/100ft

Minimum section length: 1,000 ft

Burst: Design factor

Burst

Max anticipated surface

No backup mud specified...

(psi)

2895

pressure:

1,533 psi

Internal gradient: Calculated BHP

Design parameters:

0.220 psi/ft 2,895 psi

Factor

2.618

Tension: 8 Round STC:

8 Round LTC:

Buttress:

Premium:

1.80 (J) 1.60 (J) 1.50 (J)

Body yield:

1.60 (B)

Factor

3.65

(kips)

-1.8

1.80 (J)

1.00

Liner top: 6.661 ft Directional well information: 5827 ft

Kick-off point Departure at shoe:

5413 ft

Maximum dogleg: Inclination at shoe:

0 °/100ft 91.81°

Factor

99.99 J

Tension is based on air weight.

Neutral point:

(psi)

2929

Run Seq	Segment Length (ft) 4839	Size (in) 4.5	Nominal Weight (Ibs/ft) 11.60	Grade P-110	End Finish LT&C	True Vert Depth (ft) 6193	Measured Depth (ft) 11539	Drift Diameter (in) 3.875	Est. Cost (\$) 23314
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design

(psi)

10690

Prepared Helen Sadik-Macdonald Div of Oil, Gas & Mining

(psi)

7580

Phone: 801 538-5357 FAX: 801-359-3940

Date: November 16,2011 Salt Lake City, Utah

(kips)

279

Remarks:

1

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 6193 ft, a mud weight of 9 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY

Well Name GMBU 2-32-8-16H

API Number 43013509570000 APD No 4634 Field/Unit MONUMENT BUTTE

Location: 1/4,1/4 NWNE **Sec** 32 **Tw** 8.0S **Rng** 16.0E 274 FNL 1529 FEL

GPS Coord (UTM) Surface Owner

Participants

M. Jones (UDOGM), T. Eaton (Newfield), B. Williams, A. Hansen (UDWR), Annie Smith (South Slope).

Regional/Local Setting & Topography

This location is staked approximately 12 road miles southwest of Myton, Utah, just north and west of Wells Draw. Topography is slightly hilly terrain.

Surface Use Plan

Current Surface Use

Grazing

Wildlfe Habitat

New Road Miles Well Pad Src Const Material Surface Formation

0.08 Width 200 Length 400 Onsite

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

halogeeton, gardner salt brush, 4-wing salt brush.

Soil Type and Characteristics

clay

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? Y

Divert drainages around and away from well pad and access road.

Berm Required? Y

Berm location to prevent leaks and spills from leaving the confines of the pad.

Erosion Sedimentation Control Required? N

11/22/2011 Page 1

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet)	>200 0
Distance to Surface Water (feet)	>1000 0
Dist. Nearest Municipal Well (ft)	>5280 0
Distance to Other Wells (feet)	>1320 0
Native Soil Type	Mod permeability 10
Fluid Type	Fresh Water 5
Drill Cuttings	Normal Rock 0
Annual Precipitation (inches)	10 to 20 5
Affected Populations	
Presence Nearby Utility Conduits	Not Present 0
	Final Score 20 1 Sensitivity Level

Characteristics / Requirements

Dugout earthen (165 x 100 x 8) exterior to pad dimensions.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? N

Other Observations / Comments

Mark Jones 9/28/2011
Evaluator Date / Time

11/22/2011 Page 2

Application for Permit to Drill Statement of Basis

11/22/2011 Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4634	43013509570000	SITLA	OW	S	No
Operator	NEWFIELD PRODUCTION (COMPANY	Surface Owner-APD		
Well Name	GMBU 2-32-8-16H		Unit	GMBU (GRR	V)
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	NWNE 32 8S 16E S	274 FNL 1529 F	EL GPS Coord (UTM)	573378E 443	70 9 7N

Geologic Statement of Basis

Newfield proposes to set 500' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at approximately 400 feet in depth. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of section 32. No depth is listed for this well. The well is owned by the BLM and its listed use is for stock watering. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water.

Brad Hill
APD Evaluator
Date / Time

Surface Statement of Basis

This location is staked approximately 12 road miles southwest of Myton, Utah, just north and west of Wells Draw. Topography is slightly hilly terrain. Lower elevations of surrounding area create small drainages that will typically run water during storm events. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from becoming a problem. Drainages should be diverted around and away from wellpad and access road. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Mark Jones 9/28/2011
Onsite Evaluator Date / Time

Conditions of Approval Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.

Surface The well site shall be bermed to prevent fluids from leaving the pad.

Surface Drainages adjacent to the proposed pad shall be diverted around the location. Surface The reserve pit shall be fenced upon completion of drilling operations.

RECEIVED: November 22, 2011

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/14/2011 **API NO. ASSIGNED:** 43013509570000

WELL NAME: GMBU 2-32-8-16H

PHONE NUMBER: 435 646-4825 **OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWNE 32 080S 160E Permit Tech Review:

> **SURFACE:** 0274 FNL 1529 FEL **Engineering Review:**

> **BOTTOM:** 0090 FSL 1500 FWL **Geology Review:**

COUNTY: DUCHESNE LATITUDE: 40.08095 UTM SURF EASTINGS: 573378.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-21836 PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

✓ PLAT

Bond: STATE - B001834

Potash

Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

Water Permit: 43-7478

RDCC Review:

Fee Surface Agreement

Intent to Commingle

Commingling Approved

LOCATION AND SITING:

R649-2-3.

Unit: GMBU (GRRV)

R649-3-2. General

R649-3-3. Exception

Drilling Unit

Board Cause No: Cause 213-11

Effective Date: 11/30/2009

Siting: Suspends General Siting

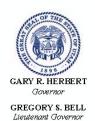
R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:

5 - Statement of Basis - bhill 8 - Cement to Surface -- 2 strings - ddoucet 27 - Other - bhill 28 - Other2 - bhill

LONGITUDE: -110.13936 NORTHINGS: 4437097.00 API Well No: 43013509570000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: GMBU 2-32-8-16H **API Well Number:** 43013509570000

Lease Number: ML-21836 **Surface Owner:** STATE **Approval Date:** 11/22/2011

Issued to:

NEWFIELD PRODUCTION COMPANY, Rt 3 Box 3630, Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Cement volumes for the 8 5/8" and 5 1/2" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths/port collar back to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

API Well No: 43013509570000

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

	STATE OF UTAH		FORM 9						
,	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	G	5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21836						
SUNDR	RY NOTICES AND REPORTS ON	I WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
	oposals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)						
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: GMBU 2-32-8-16H						
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	OMPANY		9. API NUMBER: 43013509570000						
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		ONE NUMBER: xt	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE						
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0274 FNL 1529 FEL			COUNTY: DUCHESNE						
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 32 Township: 08.0S Range: 16.0E Meridian	: S	STATE: UTAH						
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA									
TYPE OF SUBMISSION									
Since the submis Newfield has decide drilled. Attached documents. Newfiel of 2012. The propos will be 90' FSL and	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all person and approval of the above ed to make some changes as to find the revised down hole designed that this well scheduled to be seed Bottom Hole Location has conducted to 11,124' MD and 5427'	e mentioned APD, to how the well will be sign and supporting to drilled in 4th quarter thanged the new BHL to MD and TVD have	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: APD Revision Eepths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: October 16, 2012 By:						
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE Pogulatory Took							
Mandie Crozier SIGNATURE N/A	435 646-4825	Regulatory Tech DATE 9/28/2012							



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013509570000

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000' MD as indicated in the submitted drilling plan.

Cement volume for the 9 5/8" surface casing string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to the surface.

RECEIVED: Oct. 16, 2012

From: Mandie Crozier <mcrozier@newfield.com>

To: "dianawhitney@utah.gov" <dianawhitney@utah.gov>

Date: 10/12/2012 11:23 AM

Subject: RE: Sundry For API Well Number 43013509570000

Sorry,

An engineer out of Denver prepared that to have me submit.

They are changing the downhole design of the well. I wish they wouldn't have put the footages on the drilling plan like that.

----Original Message-----

From: dianawhitney@utah.gov [mailto:dianawhitney@utah.gov]

Sent: Friday, October 12, 2012 11:05 AM

To: Mandie Crozier

Subject: Sundry For API Well Number 43013509570000

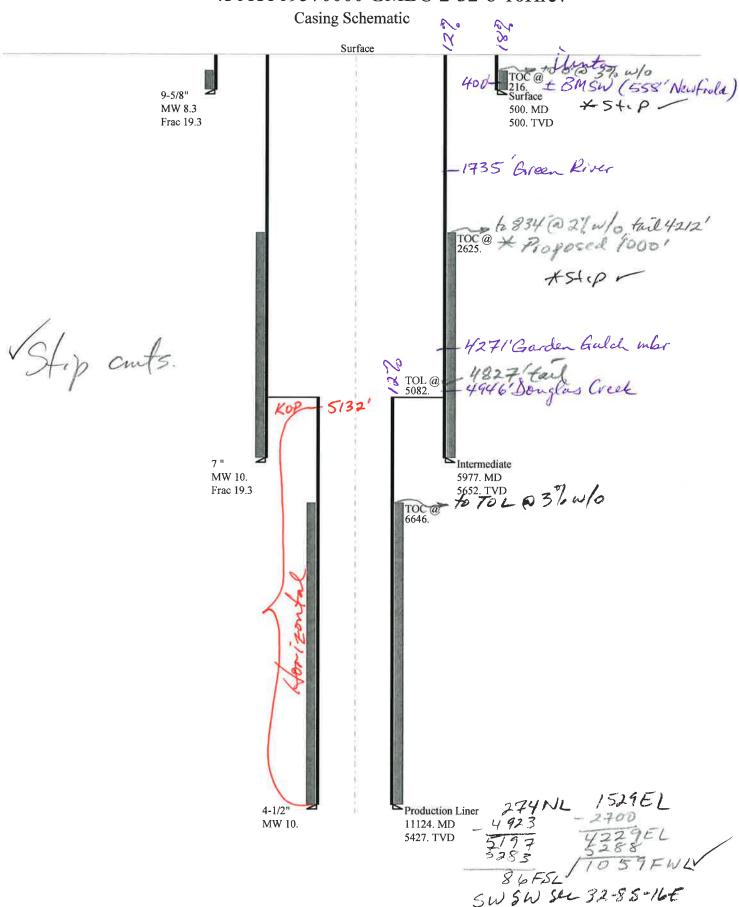
Notice of Intent: OTHER API Number: 43013509570000

Operator: NEWFIELD PRODUCTION COMPANY

The drilling program says 90' FSL 1047 FWL but the plat map has the current footages as 0090 FSL 1500

FWL. What is changing on this?

43013509570000 GMBU 2-32-8-16Hrev



43013509570000 GMBU 2-32-8-16Hrev Well name:

NEWFIELD PRODUCTION COMPANY Operator:

Surface String type:

Project ID: 43-013-50957

DUCHESNE COUNTY Location:

Design parameters: Minimum design factors: **Environment:**

Collapse Collapse: H2S considered? Mud weight: 8.330 ppg Design factor 1.125 Surface temperature:

74 °F 81 °F Design is based on evacuated pipe. Bottom hole temperature:

1.40 °F/100ft Temperature gradient: Minimum section length: 100 ft

Burst:

Design factor 1.00 Cement top: 216 ft **Burst**

Max anticipated surface pressure: 440 psi

Internal gradient: 0.120 psi/ft Tension: Non-directional string.

Calculated BHP 500 psi 8 Round STC: 1.80 (J) 8 Round LTC: 1.70 (J)

No backup mud specified. 1.60 (J) Buttress: Premium: 1.50 (J)

Body yield: 1.50 (B) Re subsequent strings:

> Next setting depth: Tension is based on air weight.

Next mud weight: 10.000 ppg Neutral point: 438 ft Next setting BHP: 2,936 psi Fracture mud wt: 19.250 ppg 500 ft

Fracture depth: Injection pressure:

Run Segment **Nominal** End True Vert Measured Drift Est. Seq Length Size Weight Grade **Finish** Depth Depth Diameter Cost (ft) (in) (lbs/ft) (ft) (ft) (in) (\$) 1 4089 500 9.625 36.00 J-55 LT&C 500 500 8.796

Run Collapse Collapse Collapse Burst Burst Burst Tension **Tension Tension** Seq Load Strength Design Load Strength Design Load Strength Design (psi) (psi) **Factor** (psi) (psi) **Factor** (kips) (kips) **Factor** 1 216 2020 9.336 500 7.04 3520 18 453 25.17 J

Prepared Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: October 15,2012 Salt Lake City, Utah

No

5,652 ft

500 psi

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43013509570000 GMBU 2-32-8-16Hrev

Operator:

NEWFIELD PRODUCTION COMPANY

String type:

Intermediate

Project ID: 43-013-50957

Location:

DUCHESNE COUNTY

Design parameters: Collapse

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Minimum design factors: Collapse:

Design factor 1.125

Environment:

H2S considered? No Surface temperature: 74 °F Bottom hole temperature: 153 °F

Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Burst:

Design factor

1.00 Cement top:

2,625 ft

Burst

Max anticipated surface pressure:

pressure: 1,693 psi Internal gradient: 0.220 psi/ft Calculated BHP 2,936 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) 8 Round LTC: 1.80 (J) Buttress: 1.60 (J) Premium: 1.50 (J)

Body yield: 1.60 (B)

Tension is based on air weight. Neutral point: 4,800 ft Directional well information:

Kick-off point 5132 ft
Departure at shoe: 548 ft
Maximum dogleg: 11 °/100ft
Inclination at shoe: 92.95 °

Re subsequent strings:

Next setting depth: 5,427 ft
Next mud weight: 10.000 ppg
Next setting BHP: 2,819 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 5,652 ft
Injection pressure: 5,652 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5977	7	26.00	L-80	LT&C	5652	5977	6.151	114873
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2936	5003	1.704	2936	7240	2.47	147	511	3.48 J

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940 Date: October 15,2012 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5652 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:

43013509570000 GMBU 2-32-8-16Hrev

Operator:

NEWFIELD PRODUCTION COMPANY

String type:

Project ID:

Production Liner

43-013-50957

Location:

DUCHESNE COUNTY

> Minimum design factors: **Environment:**

Collapse

Mud weight:

Design parameters:

Collapse: Design factor

1.125

1.00

H2S considered? Surface temperature:

No 74 °F

Design is based on evacuated pipe.

Bottom hole temperature: Temperature gradient:

150 °F 1.40 °F/100ft

Minimum section length: 1,000 ft

Burst:

Design factor

Cement top:

Liner top:

6,646 ft

5,082 ft

Burst

Max anticipated surface pressure:

Internal gradient:

Calculated BHP

1,625 psi 0.220 psi/ft 2,819 psi

10.000 ppg

Tension:

Buttress:

Premium:

Body yield:

8 Round STC: 1.80 (J) 8 Round LTC:

1.80 (J) 1.60 (J) 1.50 (J) 1.60 (B) Kick-off point Departure at shoe: Maximum dogleg:

Inclination at shoe:

Directional well information:

5132 ft 5690 ft 11 °/100ft 92.5°

No backup mud specified.

Tension is based on air weight. Neutral point:

5,389 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	6024	4.5	11.60	L-80	Buttress	5427	11124	3.875	29859
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2819	6350	2.252	2868	7780	2.71	3.8	267	70.41 B

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: October 15,2012 Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 5427 ft, a mud weight of 10 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

BODE DEVIEW		1		!	
BOPE REVIEW		Newfield GMBU	U 2-32-8	2-32-8-16Hrev API 43-013-50597-0000	0000
Well Name		Newfield GMBU 2-32-	8-16Hrev A	PI 43-013-50597-0000	
		String 1 String 2	g 2	String 3	
Casing Size (")		9 5/8	7	C/1 P	
Setting Depth (TVD)		500	FRES		
Previous Shoe Setting Denth (TVD)	(QA	000	2000		
Max Mud Weight (ppg)		OF OF	300		
BOPE Proposed (nsi)		000	0000		
Casing Internal Yield (psi)		2500	2000	2000	
Operators Max Anticipated Pressure (psi)	sure (psi)	2430	1240		
				0	
Calculations	String 1	1 9 5/8 "			
Max BHP [psi]	.052*Setting Depth*MW =	= 217			
			E Adequate	BOPE Adequate For Drilling And Setting Casing at Depth?	oth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	157	YES	Diverter head	
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	101	YES	NO	
			Full Expect	*Can Full Expected Pressure Be Held At Previous Shoe?	29
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth) =	115	Q	06	
Required Casing/BOPE Test Pressure		500 psi			
*Max Pressure Allowed @ Previous Casing Shoe =	vious Casing Shoe =	40 psi		*Assumes 1psi/ft frac gradient	
		2			
Calculations	String 2	2 7 "			
Max BHP [psi]	= .052*Setting Depth*MW	= 2939			
		BOP	E Adequate	BOPE Adequate For Drilling And Setting Casing at Depth?	th?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	2261	Q.	2M two ram preverters, annular preventer	preventer
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1696	YES	0%	
			Full Expect	*Can Full Expected Pressure Be Held At Previous Shoe?	25
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth) =	1806	Q.	Responsible	
Required Casing/BOPE Test Pressure	ressure	2000 psi			
*Max Pressure Allowed @ Previous Casing Shoe =	vious Casing Shoe =	500 psi		*Assumes 1psi/ft frac gradient	
Calculations	String 3	3 4 1/2 "			
Max BHP [psi]	= ,052*Setting Depth*MW	= 2822			
		BOP	E Adequate	BOPE Adequate For Drilling And Setting Casing at Depth?	th?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	2171	ON	2M two ram preverters, annular preventer	reventer
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1628	YES	no	
			Full Expect	*Can Full Expected Pressure Be Held At Previous Shoe?	25
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth) =	2872	YES		•).
Required Casing/BOPE Test Pressure	ressure	2000 psi			
*Max Pressure Allowed @ Previous Casing Shoe =	vious Casing Shoe =	5652 psi		*Assumes 1psi/ft frac gradient	

Newfield Production Company GMBU 2-32-8-16H

Surface Hole Location: 274' FNL, 1529' FEL, NW/NE Section 32, T8S, R16W Bottom Hole Location: 90' FSL, 1047' FWL, SE/SW Section 32, T8S, R16W Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta surface
Green River 1,735'
Garden Gulch member 4,271'
Douglas Creek 4,946'

Lateral TD 5,427' TVD / 11,124' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline 558' (water)
Green River 4,271' - 5,427' (oil)

3. Pressure Control

Section BOP Description

Surface 12-1/4" diverter

Interm/Prod The BOP and related equipment shall meet the minimum requirements of Onshore

Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc

for a 2M system.

A 2M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least

2,000 psi will be used.

4. Casing

Description	I	nterval	Weight	Grade	C	Pore	MW @	Frac	S	afety Factor	·s
Description	Тор	Bottom (TVD/MD)	(ppf)	Grade	Coup	Press @ Shoe	Shoe	Grad @ Shoe	Burst	Collapse	Tension
Surface	0'	500'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	489,000
9 5/8	U	300	30	1-33	LIC	6.33	0.33	12	12.55	12.70	27.17
Intermediate	0'	5,652'	26	L-80	LTC/BTC	8.33	10	16.3	7,240	5,410	511,000
7	U	5,977'	20	L-60	LIC/BIC	0.33	10	10.5	3.84	2.28	3.29
Production	5,082'	5,427'	11.6	L-80	ВТС	8.33	10	16.3	7,778	6,360	212,000
4 1/2	3,082	11,124'	11.0	L-80	ыс	6.33	10	10.5	4.30	2.79	3.02

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Intermediate casing MASP = (reservoir pressure) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

RECEIVED: Sep. 28, 2012

All tension calculations assume air weight of casing Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight	Yield
JOD	Hole Size	FIII	Sturry Description	sacks	OH excess	(ppg)	(ft ³ /sk)
Surface	12 1/4	500'	Class G w/ 2% CaCl2	180	15%	15.8	1.17
Surface	12 1/4	300	Class G w/ 2/0 CaCl2	154	1370	13.6	1.17
Intermediate	8 3/4	3,271'	Premium Lite II + 10% Bentonite + 3%	566	15%	11.0	3.53
Lead	0 3/4	3,271	KCL	160	1370	11.0	3.33
Intermediate	8 3/4	1.706'	50% Class G / 50% Poz + 3% KCL + 2%	295	15%	14.0	1.24
Tail	0 3/4	1,700	Bentonite	238	1370	14.0	1.24
Production	6 1/8	6.042'	50% Class G / 50% Poz + 3% KCL + 2%	654	15%	14.0	1.24
	0 1/0	0,042	Bentonite	528	1370	14.0	1.24

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The production liner will be cemented. A liner top hanger and packer will be installed 50' above KOP.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u> <u>Description</u>

Surface - 500'

An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

500' - TD

A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.0 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run in the intermediate section from the top of the curve to the base of the surface casing. A compensated neutron/formation density log will be run in the intermediate section from the top of the curve to the top of

the Garden Gulch formation. While drilling the lateral, gamma ray LWD tools will be utilized. Upon reaching TD, gamma ray, resistivity, formation density, neutron, and high resolution resitivity image log will be run in the open hole. A cement bond log will be run from the top of the curve to the cement top behind the intermediate casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.43 psi/ft gradient.

$$5,427' \text{ x} = 0.43 \text{ psi/ft} = 2351 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

An 8-3/4" vertical hole will be drilled to a kick off point of 5,132'

Directional tools will then be used to build to 93.0° degrees inclination.

The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

Angle will be subsequently dropped to 92.5° to stay within the Douglas Creek.

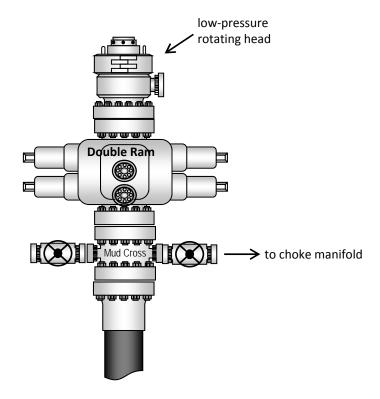
The lateral portion is designed to avoid offset wells. Refer to attached directional plan.

The top of the liner will be place 50' above KOP and will be cemented and isolated with a liner top packer.

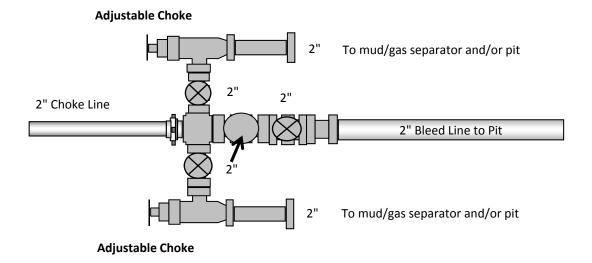
Newfield requests the following variances from Onshore Order #2:

 Variance from Onshoer Order #2, III.E.1
 Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

Typical 2M BOP stack configuration



Typical 2M Choke Manifold Configuration



Newfield Exploration Company

Duchesne County, UT Sec. 32-T8S-R16E GMBU 2-32-8-16H

Plan A Rev 1

Plan: Plan A Rev 1 Proposal

Sperry Drilling Services Proposal Report

26 September, 2012

Well Coordinates: 7,201,101.77 N, 2,021,122.63 E (40° 04' 51.38" N, 110° 08' 21.63" W)

Ground Level: 5,682.00 ft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well GMBU 2-32-8-16H

RKB 13' @ 5695.00ft (RKB 13' (Capstar 329))

RKB 13' @ 5695.00ft (RKB 13' (Capstar 329))

True

API - US Survey Feet - Custom

Geodetic Scale Factor Applied Version: 2003.16 Build: 43I

HALLIBURTON

Project: Duchesne County, UT Site: Sec. 32-T8S-R16E Well: GMBU 2-32-8-16H Wellbore: Plan A Rev 1

Newfield Exploration Company



Design: Plan A Rev 1 Proposal SECTION DETAILS West(-)/East(+) (1500 ft/in) 0 -4000 -3500 -3000 -2500 -2000 -1500 -1000 -500 MD Inc Azi TVD +N/-S +E/-W DLea **TFace** VSec Target 0.00 0.00 0.000 0.00 0.00 0.00 0.00 0.00 0.00 13.00 0.00 0.000 13.00 0.00 0.00 0.00 0.000 513 00 0.00 513.00 0.00 0.00 0.00 0.00 0.00 274' FNL, 1529' FEL -500 5132.00 0.00 0.000 5132.00 0.00 0.00 0.00 0.00 GMBU 2-32-8-16H SHL Section Line 5977.45 93.00 216.500 5652.16 -440.62 -326.04 11.00 216.50 543.11 6052.45 93.00 216.500 5648.23 -500.83 -370.59 0.00 0.00 617.33 92.50 6069.12 216.500 5647.43 -514.21 -380.49 3.00 180.00 633.82 -2521.94 -1866.14 3108.58 8569.12 92.50 216.500 5538.38 0.00 0.00 9232.49 92.50 196.580 -3111.84 -2160.76 3.00 -89.56 3767.49 GMBU 2-32-8-16H BHL Tgt Proposed Kick-Off Point @ 5132.00 ft - AZI=216.59 Wells Draw 2-32-8-16/Existing Wellbore NO SURVEYS -2700.00 0.00 0.00 GMBU 2-32-8-16H BHL Tat Proposed 10 11124 01 92 50 196 580 5426 65 -4923 00 5614.80 --500 Begin 3°/100' Drop @ 6052.45 f WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG) End Drop @ 6069.12 ft - INC=92.50° End Build @ 5977.45 ft - INC=93.0° Easting Latitude Longitude 2021122.63 40° 4 51.380 N 110° 8' 21.630 W 2021122.63 40° 4' 51.380 N 110° 8' 21.630 W 2018950.67 40° 4' 2.726 N 110° 8' 50.536 W Shape Polygon Point GMBU 2-32-8-16H_Section Lines GMBU 2-32-8-16H_SHL GMBU 2-32-8-16H_BHL (PLAT) 0.00 7201101.77 --1000 0.00 Hold INC = 92.50° 0.00 0.00 0.00 7201101.77 5440.00 -4923.24 -2247 31 Point 7196145 37 Hold AZI = 216.500° -1500 -2000 South(-)/North(+) (-2500 Gavilan State 22-32-8-16 - - -- State 32-32-8-16 5000 Gavilan State 22-32-8-16/Existing Wellbore State 32-32-8-16/Existing Wellbore NO Surveys Begin 3°/100 Turn @ 8569.12 ft -----Sec. 32 ---- Kick-Off Point @ 5132.00 ft - AZI=216.5° True Vertical Depth (300 ft/in) 5200 State 23-32-8-16 End Turn @ 9232.49 ft ------State 23-32-8-16/Existing Wellbore -3500 🕏 Build Rate = 11.00°/100' Hold AZI = 196.580° ----5400 -4000 End Build @ 5977.45 ft - INC=93.0° State 14-32-8-16 _ _ State 24-32/Existing Wellbore Begin 3°/100' Drop @ 6052.45 ft --4500 5600 -5000 Section Line GMBU 2-32-8-16H_BHL (PLAT) Total Depth = 11124.01 ft -5500 End Drop @ 6069.12 ft - INC=92.50° GMBU 2-32-8-16H_BHL Tgt Proposed **-6000** 90' FSL. 1047' FWL -200 1000 Vertical Section at 208.74° (300 ft/in) Vertical Depth (1000 ft/in) Kick-Off Point @ 5132.00 ft - AZI=216.5° GMBU 2-32-8-16H_BHL (PLAT) Hold AZI = 196 5809 End Build @ 5977.45 ft - INC=93.09 Hold AZI = 216500° WELL DETAILS: GMBU 2-32-8-16H 5682.00 Ground Level: End Turn @ 9232.49 ft Total Depth = 11124.01 ft Easting Latittude Longitude Hold INC = 92.50° 2021122.63 40° 4' 51.380 N 110° 8' 21.630 W Begin 3°/100 Turn @ 8569.12 ft GMBU 2-32-8-16H_BHL Tgt Proposed End Drop @ 6069.12 ft - INC=92.50° 6000 Begin 3°/100' Drop @ 6052.45 ft Plan A Rev 1 Proposal (GMBU 2-32-8-16H/Plan A Rev 1 True, Date: 09/26/2012 Created By: Jerry Popp 500 1000 1500 2000 3000 4000 4500 5000 5500 6000 6500 Vertical Section at 208.74° (1000 ft/in) Checked: Date:

Newfield Exploration Company

HALLIBURTON

Duchesne County, UT

Plan Report for GMBU 2-32-8-16H - Plan A Rev 1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.00 Ground Le	0.00 evel - Elev=56	0.000	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
513.00 600.00	0.00 0.00	0.000 0.000	513.00 600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00 1,400.00	0.00 0.00	0.000 0.000	1,300.00 1,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,500.00	0.00	0.000	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.000	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.000	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.000	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.000	1,900.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00
2,000.00 2,100.00	0.00 0.00	0.000 0.000	2,000.00 2,100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00
2,200.00	0.00	0.000	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.000	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.000	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.000	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00 2,700.00	0.00 0.00	0.000 0.000	2,600.00 2,700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,800.00	0.00	0.000	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.000	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.000	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.000	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.000	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00 3,400.00	0.00 0.00	0.000 0.000	3,300.00 3,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
3,500.00	0.00	0.000	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.000	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.000	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.000	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00 0.00	0.000 0.000	3,900.00 4.000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
4,000.00 4,100.00	0.00	0.000	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.000	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.000	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.000	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00 4,600.00	0.00 0.00	0.000 0.000	4,500.00 4,600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
4,700.00	0.00	0.000	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.000	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.000	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.000	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00 5,132.00	0.00 0.00	0.000 0.000	5,100.00 5,132.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	oint @ 5132.0			0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,150.00	1.98	216.500	5,150.00	-0.25	-0.18	0.31	11.00	11.00	0.00	216.50

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Plan Report for GMBU 2-32-8-16H - Plan A Rev 1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,200.00	7.48	216.500	5,199.81	-3.56	-2.64	4.39	11.00	11.00	0.00	0.00
5,250.00	12.98	216.500	5,248.99	-10.70	-7.92	13.19	11.00	11.00	0.00	0.00
5,300.00	18.48	216.500	5,297.10	-21.59	-15.98	26.61	11.00	11.00	0.00	0.00
5,350.00	23.98	216.500	5,343.69	-36.14	-26.74	44.55	11.00	11.00	0.00	0.00
5,400.00	29.48	216.500	5,388.33	-54.21	-40.11	66.82	11.00	11.00	0.00	0.00
5,450.00	34.98	216.500	5,430.61	-75.64	-55.97	93.23	11.00	11.00	0.00	0.00
5,500.00	40.48	216.500	5,470.14	-100.22	-74.16	123.54	11.00	11.00	0.00	0.00
5,550.00 5,600.00	e = 11.00°/100' 45.98 51.48	216.500 216.500	5,506.56 5,539.52	-127.74 -157.94	-94.52 -116.87	157.46 194.68	11.00 11.00	11.00 11.00	0.00 0.00	0.00 0.00
5,650.00	56.98	216.500	5,568.74	-190.54	-140.99	234.86	11.00	11.00	0.00	0.00
5,700.00	62.48	216.500	5,593.93	-225.24	-166.67	277.63	11.00	11.00		0.00
5,750.00	67.98	216.500	5,614.87	-261.72	-193.66	322.60	11.00	11.00	0.00	0.00
5,800.00	73.48	216.500	5,631.37	-299.65	-221.73	369.35	11.00	11.00	0.00	0.00
5,850.00	78.98	216.500	5,643.27	-338.67	-250.60	417.45	11.00	11.00	0.00	0.00
5,900.00	84.48	216.500	5,650.46	-378.43	-280.02	466.46	11.00	11.00	0.00	0.00
5,950.00	89.98	216.500	5,652.87	-418.56	-309.72	515.92	11.00	11.00	0.00	0.00
5,977.45	93.00	216.500	5,652.16	-440.62	-326.04	543.11	11.00	11.00	0.00	0.00
End Build 6,000.00	93.00	• INC=93.0° 216.500	5,650.98	-458.72	-339.43	565.42	0.00	0.00	0.00	0.00
	93.00 1 00' Drop @ 60		5,648.23	-500.82	-370.59	617.32	0.00	0.00	0.00	0.00
	92.50 @ 6069.12 ft -		5,647.43	-514.21	-380.49	633.82	3.00	-3.00	0.00	-180.00
6,100.00	92.50	216.500	5,646.09	-539.01	-398.84	664.39	0.00	0.00	0.00	180.00
6,200.00	92.50	216.500	5,641.72	-619.32	-458.27	763.38	0.00	0.00	0.00	0.00
6,300.00	92.50	216.500	5,637.36	-699.62	-517.69	862.37	0.00	0.00	0.00	0.00
6,400.00	92.50	216.500	5,633.00	-779.93	-577.12	961.36	0.00	0.00	0.00	0.00
6,500.00 6,600.00 6,700.00 6,800.00	92.50 92.50 92.50 92.50 92.50	216.500 216.500 216.500 216.500	5,628.64 5,624.28 5,619.91 5,615.55	-860.24 -940.55 -1,020.86 -1,101.17	-636.55 -695.97 -755.40 -814.82 -874.25	1,060.35 1,159.34 1,258.33 1,357.32	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,900.00 7,000.00 Hold INC :	92.50	216.500 216.500	5,611.19 5,606.83	-1,181.48 -1,261.79	-933.67	1,456.31 1,555.30	0.00	0.00	0.00	0.00
7,100.00	92.50	216.500	5,602.47	-1,342.10	-993.10	1,654.29	0.00	0.00	0.00	0.00
7,200.00	92.50	216.500	5,598.10	-1,422.41	-1,052.53	1,753.28	0.00	0.00	0.00	0.00
7,300.00	92.50	216.500	5,593.74	-1,502.72	-1,111.95	1,852.27	0.00	0.00	0.00	0.00
7,400.00	92.50	216.500	5,589.38	-1,583.03	-1,171.38	1,951.26	0.00	0.00	0.00	0.00
7,500.00 Hold AZI =	92.50 = 216.500 °	216.500	5,585.02	-1,663.33	-1,230.80	2,050.26	0.00	0.00	0.00	0.00
7,600.00	92.50	216.500	5,580.66	-1,743.64	-1,290.23	2,149.25	0.00	0.00	0.00	0.00
7,700.00	92.50	216.500	5,576.29	-1,823.95	-1,349.65	2,248.24	0.00	0.00	0.00	0.00
7,800.00	92.50	216.500	5,571.93	-1,904.26	-1,409.08	2,347.23	0.00	0.00	0.00	0.00
7,900.00	92.50	216.500	5,567.57	-1,984.57	-1,468.51	2,446.22	0.00	0.00	0.00	0.00
8,000.00	92.50	216.500	5,563.21	-2,064.88	-1,527.93	2,545.21	0.00	0.00	0.00	0.00
8,100.00	92.50	216.500	5,558.85	-2,145.19	-1,587.36	2,644.20	0.00	0.00	0.00	0.00
8,200.00	92.50	216.500	5,554.48	-2,225.50	-1,646.78	2,743.19	0.00	0.00	0.00	0.00
8,300.00	92.50	216.500	5,550.12	-2,305.81	-1,706.21	2,842.18	0.00	0.00	0.00	0.00
8,400.00	92.50	216.500	5,545.76	-2,386.12	-1,765.63	2,941.17	0.00	0.00	0.00	0.00
8,500.00	92.50	216.500	5,541.40	-2,466.43	-1,825.06	3,040.16	0.00	0.00	0.00	0.00
8,569.12	92.50	216.500	5,538.38	-2,521.94	-1,866.13	3,108.58	0.00	0.00	0.00	0.00
8,600.00 8,700.00 8,800.00	92.51 92.52 92.53	69.12 ft 215.573 212.570 209.567	5,537.03 5,532.64 5,528.23	-2,546.88 -2,629.63 -2,715.19	-1,884.28 -1,940.25 -1,991.80	3,139.18 3,238.64 3,338.45	3.00 3.00 3.00	0.02 0.02 0.01	-3.00 -3.00 -3.00	-89.56 -89.60 -89.73
8,900.00	92.54	206.564	5,523.80	-2,803.33	-2,038.79	3,438.34	3.00	0.00	-3.00	-89.87
9,000.00	92.53	203.561	5,519.38	-2,893.82	-2,081.11	3,538.02	3.00	0.00	-3.00	-90.00
9,100.00	92.52	200.558	5,514.96	-2,986.40	-2,118.62	3,637.23	3.00	-0.01	-3.00	-90.13

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Plan Report for GMBU 2-32-8-16H - Plan A Rev 1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
9,200.00 9,232.49	92.51 92.50 @ 9232.49 ft	197.555 196.580	5,510.57 5,509.15	-3,080.82 -3,111.84	-2,151.24 -2,160.77	3,735.70 3,767.49	3.00 3.00	-0.02 -0.02	-3.00 -3.00	-90.26 -90.40
Ena Turn	@ 9232.49 It									
9,300.00 9,400.00 9,500.00 9,600.00 9,700.00	92.50 92.50 92.50 92.50 92.50	196.580 196.580 196.580 196.580 196.580	5,506.21 5,501.85 5,497.48 5,493.12 5,488.76	-3,176.49 -3,272.24 -3,367.99 -3,463.74 -3,559.49	-2,180.01 -2,208.52 -2,237.03 -2,265.53 -2,294.04	3,833.42 3,931.08 4,028.74 4,126.41 4,224.07	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
9,800.00 9,900.00 10,000.00 Hold AZI =	92.50 92.50 92.50	196.580 196.580 196.580	5,484.40 5,480.04 5,475.68	-3,655.24 -3,750.99 -3,846.74	-2,322.55 -2,351.06 -2,379.57	4,321.73 4,419.39 4,517.06	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,100.00 10,200.00	92.50 92.50	196.580 196.580	5,471.31 5,466.95	-3,942.49 -4,038.25	-2,408.07 -2,436.58	4,614.72 4,712.38	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
10,300.00 10,400.00 10,500.00 10,600.00 10,700.00	92.50 92.50 92.50 92.50 92.50	196.580 196.580 196.580 196.580 196.580	5,462.59 5,458.23 5,453.87 5,449.50 5,445.14	-4,134.00 -4,229.75 -4,325.50 -4,421.25 -4,517.00	-2,465.09 -2,493.60 -2,522.11 -2,550.61 -2,579.12	4,810.04 4,907.71 5,005.37 5,103.03 5,200.69	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
10,800.00 10,900.00 11,000.00 11,100.00 11,123.43 GMBU 2-3	92.50 92.50 92.50 92.50 92.50 2-8-16H BHL	196.580 196.580 196.580 196.580 196.580 Tgt Proposec	5,440.78 5,436.42 5,432.06 5,427.69 5,426.67	-4,612.75 -4,708.50 -4,804.25 -4,900.01 -4,922.44 2-8-16H_BHL	-2,607.63 -2,636.14 -2,664.65 -2,693.15 -2,699.83	5,298.35 5,396.02 5,493.68 5,591.34 5,614.23	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11.124.01	92.50	196.580	5,426.65	-4,923.00	2 700 00	5.614.79	0.00	0.00	0.00	0.00
, -	92.50 h = 11124.01		5,420.05	-4,923.00	-2,700.00	3,014.79	0.00	0.00	0.00	0.00

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
13.00	13.00	0.00	0.00	Ground Level - Elev=5682
5,132.00	5,132.00	0.00	0.00	Kick-Off Point @ 5132.00 ft - AZI=216.5°
5,500.00	5,470.14	-100.22	-74.16	Build Rate = 11.00°/100'
5,977.45	5,652.16	-440.62	-326.04	End Build @ 5977.45 ft - INC=93.0°
6,052.45	5,648.23	-500.82	-370.59	Begin 3°/100' Drop @ 6052.45 ft
6,069.12	5,647.43	-514.21	-380.49	End Drop @ 6069.12 ft - INC=92.50°
7,000.00	5,606.83	-1,261.79	-933.67	Hold INC = 92.50°
7,500.00	5,585.02	-1,663.33	-1,230.80	Hold AZI = 216.500°
8,569.12	5,538.38	-2,521.94	-1,866.13	Begin 3°/100 Turn @ 8569.12 ft
9,232.49	5,509.15	-3,111.84	-2,160.77	End Turn @ 9232.49 ft
10,000.00	5,475.68	-3,846.74	-2,379.57	Hold AZI = 196.580°
11,124.01	5,426.65	-4,923.00	-2,700.00	Total Depth = 11124.01 ft

Vertical Section Information

Angle			Origin	Origi	in	Start	
Туре	Target	Azimuth (°)	Туре	+N/_S (ft)	+E/-W (ft)	TVD (ft)	
TD	No Target (Freehand)	208.742	Slot	0.00	0.00	0.00	

Survey tool program

From	To		Survey/Plan	Survey Tool
(ft) 0.00	(ft) 11 123 99	Plan A Rev 1 Proposal		MWD
0.00	11,120.00	i iaii A Nev i i Toposai		IVIVVD

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Plan Report for GMBU 2-32-8-16H - Plan A Rev 1 Proposal

Targets associated with this wellbore

	טעו	+N/-S	+E/-W	
Target Name	(ft)	(ft)	(ft)	Shape
GMBU 2-32-8-16H_SHL	0.00	0.00	0.00	Point
GMBU 2-32-8-16H_BHL Tgt Proposed	5,440.00	-4,923.00	-2,700.00	Point
GMBU 2-32-8-16H_Section Lines	0.00	0.00	0.00	Polygon
GMBU 2-32-8-16H_BHL (PLAT)	5,440.00	-4,923.24	-2,247.31	Point

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North Reference Sheet for Sec. 32-T8S-R16E - GMBU 2-32-8-16H - Plan A Rev 1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 13' @ 5695.00ft (RKB 13' (Capstar 329)). Northing and Easting are relative to GMBU 2-32-8-16H Coordinate System is US State Plane 1983, Utah Central Zone using datum North American Datum 1983, ellipsoid GRS 1980

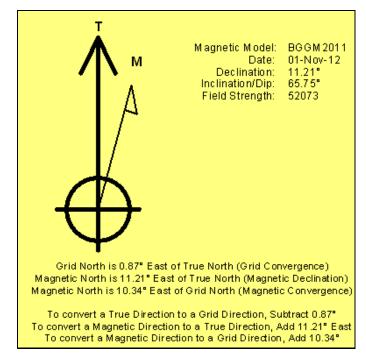
Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N° False Easting: 1,640,416.67ft, False Northing: 6,561,666.67ft, Scale Reduction: 0.99990801

Grid Coordinates of Well: 7,201,101.77 ft N, 2,021,122.63 ft E Geographical Coordinates of Well: 40° 04' 51.38" N, 110° 08' 21.63" W Grid Convergence at Surface is: 0.87°

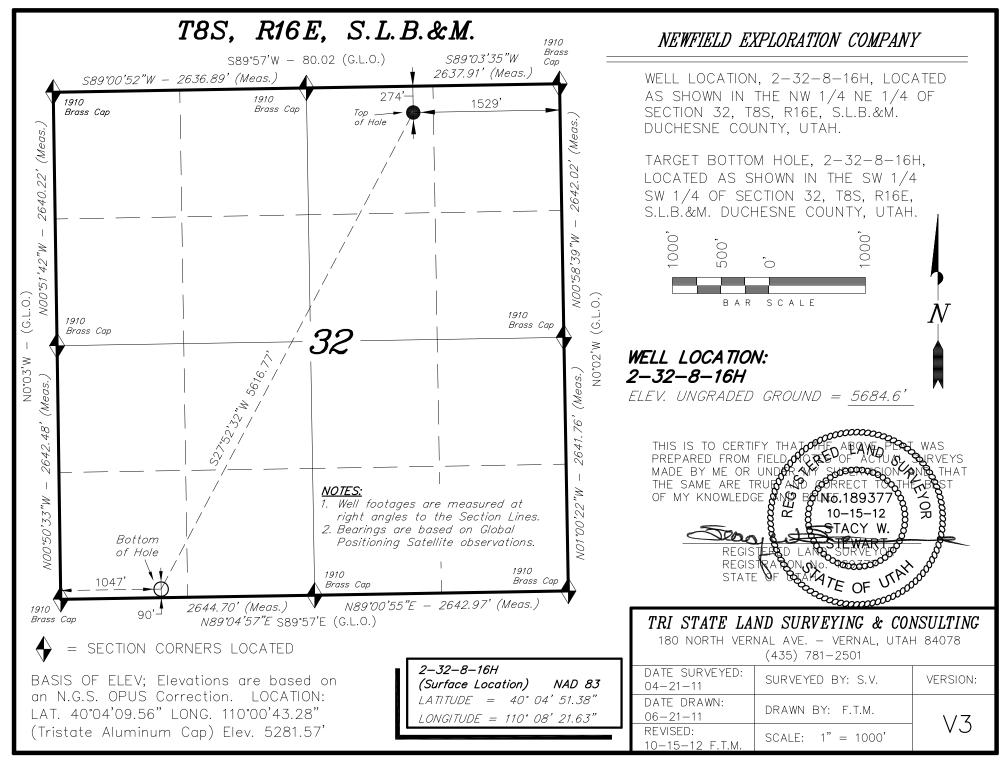
Based upon Minimum Curvature type calculations, at a Measured Depth of 11,124.01ft the Bottom Hole Displacement is 5,614.79ft in the Direction of 208.74° (True).

Magnetic Convergence at surface is: -10.34° (1 November 2012, , BGGM2011)



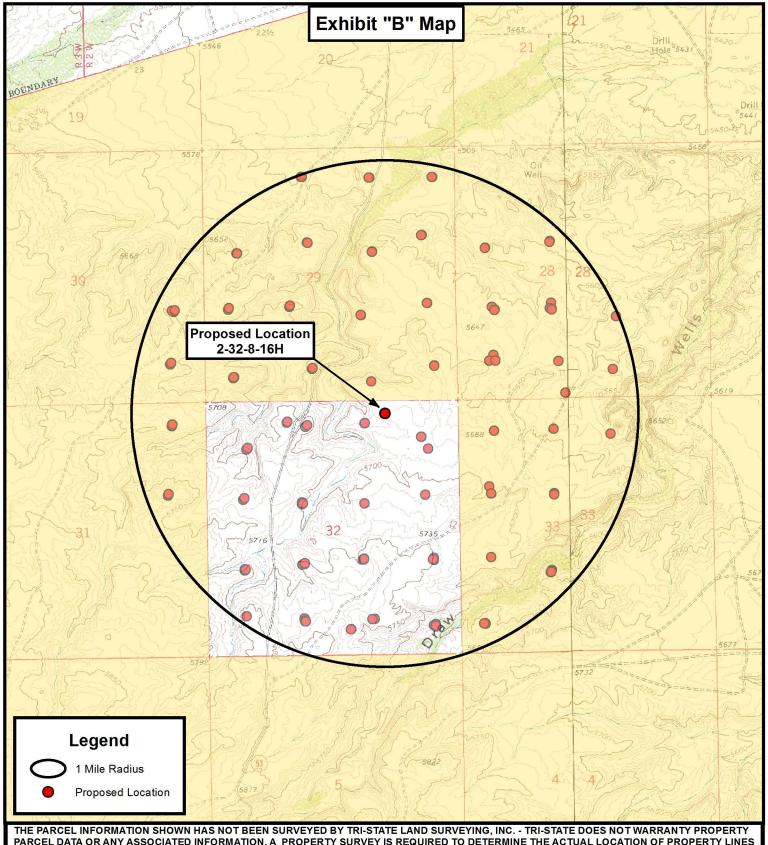
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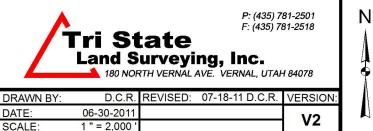


Sundry Number: 30296 API Well Number: 43013509570000 **Access Road Map** CANAL Gaging **MYTON** 1 / mi Bench idgeland Myton E & 7 mil VALLEY South CarralC PLEASANT Canyon RESERVATION INDIAN UNTAH **Proposed Location** £2.9 mi. 2-32-8-16H See Topo "B" ± 0.5 mi. 9.5 Legend Existing Road Bench Proposed Road Pariette **NEWFIELD EXPLORATION COMPANY** P: (435) 781-2501 F: (435) 781-2518 N 'ri State 2-32-8-16H Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078 SEC. 32, T8S, R16E, S.L.B.&M. **Duchesne County, UT.** DRAWN BY: D.C.R. REVISED: 07-18-11 D.C.R. **VERSION** SHEET 06-30-2011 TOPOGRAPHIC MAP DATE: V2 SCALE 1:100,000



PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



NEWFIELD EXPLORATION COMPANY

2-32-8-16H SEC. 32, T8S, R16E, S.L.B.&M. **Duchesne County, UT.**

TOPOGRAPHIC MAP



ONFOENTAL SOME

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross # 26 Submitted By Mike Braithwaite Phone Number 435-401-8392 Well Name/Number GMBU 2-32-8-16H Qtr/Qtr NWNE Section 32 Township 8S Range 16E Lease Serial Number ML-21836 API Number 430/350957									
Spud Notice — Spud is the initial spudding of the well, not drilling out below a casing string.									
Date/Time <u>10/24/2012</u> <u>7:00</u> AM ⊠ PM □									
Casing – Please report time casing run starts, not cementing times. Surface Casing Intermediate Casing Production Casing Liner Other									
Date/Time <u>10/25/2012</u> <u>7:00</u> AM ⊠ PM □									
Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other									
Date/Time AM									
Remarks									

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION	CURRENT	NEW	API NUMBER	WELL NAME		WE	LL LOCAT	ION		SPUD	EFFECTIVE	
CODE	ENTITY NO.	ENTITY NO.			QQ	SC TP RO		RG	COUNTY	DATE	DATE	
В	99999	17400	4301350957	GMBU 2-32-8-16H	NWNE	32	88	16E	DUCHESNE	10/25/2012	10/31/12	
VELL 1 COM	MENTS:	BHL:S	esin									
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QQ	SC	LL LOCAT	ION RG	COUNTY	SPUD DATE	EFFECTIVE DATE	
A	99999	18782	4301351202	UTE TRIBAL 7-19-3-3W	SWNE	19	3S	3W	DUCHESNE	10/17/2012	10/31/12	
G,	R-WS	110102			1				· · · · · · · · · · · · · · · · · · ·			
ACTION	CURRENT	NEW	API NUMBER	WELL NAME			LL LOCAT			SPUD	EFFECTIVE	
В	ENTITY NO.	ENTITY NO.			00	sc	TP	RG	COUNTY	DATE		
В	99999	17400	4301351264	GMBU L-10-9-17	NESE	10	98	17E	DUCHESNE	9/6/2012	10/31/13	
GRRY BHL: SWA												
ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	90	WE I SC	LL LOCAT	ION RG	COUNTY	SPUD DATE	EFFECTIVE DATE	
В	99999	17400	4301351265	GMBU W-10-9-17	NENW	15		17E	DUCHESNE	8/15/2012	10/31/12	
GD	LRV E	SHL SI	0 Suse							*******		
ACTION	CURRENT	NEW	API NUMBER	WELL NAME			LL LOCAT	ION RG	COUNTY	SPUD DATE	EFFECTIVE	
В	99999 99999	17400	4301351268	GMBU S-10-9-17	NESE	10	9S	17E	DUCHESNE	9/5/2012	10/3/1/2	
GD	RV P	HL:SA	\C 0		<u> </u>	1						
ACTION	CURRENT	NEW	API NUMBER	WELL NAME	QQ	WELL LOCATION QQ SC TP RG COUNTY				SPUD DATE	EFFECTIVE DATE	
B	99999 99999	17400	4301351269	GMBU U-10-9-17	NWNW	14		17E	DUCHESNE	8/25/2012	10/31/12	
GR	DV 5	3HL:S	10 Sese	- TOTALER			<u> </u>					
ACTION	CURRENT	NEW	API NUMBER	WALCEIVED			LL LOCAT	ION RG	COUNTY	SPUD DATE	EFFECTIVE DATE	
CODE	ENTITY NO.	ENTITY NO.		207 0 3 3012	QQ	sc	TP	NO.	COOKII	DAIL	<u> </u>	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING UTAH STATE ML-21836 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. **GMBU** 1. TYPE OF WELL: 8. WELL NAME and NUMBER: OIL WELL X GAS WELL [OTHER GMBU 2-32-8-16H 2. NAME OF OPERATOR: 9. API NUMBER: **NEWFIELD PRODUCTION COMPANY** 4301350957 3. ADDRESS OF OPERATOR: 10. FIELD AND POOL, OR WILDCAT: PHONE NUMBER Route 3 Box 3630 CITY Myton ZIP 84052 435.646.3721 STATE UT GREATER MB UNIT 4. LOCATION OF WELL FOOTAGES AT SURFACE COUNTY: DUCHESNE OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNE, 32, T8S, R16E UT STATE CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION ☐ NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL CASING REPAIR NEW CONSTRUCTION TEMPORARITLY ABANDON Approximate date work will CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLAIR SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/STOP) WATER SHUT-OFF Date of Work Completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE X OTHER: - Spud Notice 10/25/2012 CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 10/25/12 MIRU Ross #26. Spud well @8:00 AM. Drill 545' of 12 1/4" hole with air mist. TIH W/ 12 Jt's 9 5/8" J-55 29# csgn. Set @ 535. On 10/25/12 cement with 270 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 22 barrels cement to pit. WOC. NAME (PLEASE PRINT) Branden Arnold

10/27/2012

(This space for State use only)

SIGNATURE

RECEIVED

NUV 1 4 2012

Casing / Liner Detail

Well	GM	BU 2-3	2-8-16H	1						
Prospect	Mor	nument	Butte							
Foreman										
Run Date:							•			
String Type		fass 0	605" 0	10# LE			And the state of t			
Sumg Type	Sur	race, 9	.625", 2	9#, J-0	J,		Proposition the Parish to Market Market Parish to Market			
					- Detail	From Top To Botte	om -			
Depth	'	Length	JTS	S		Description	7	OD	ID	
549.06	3			13'	KB height				i	
13.00		1.43		We	ellhead	9.625				
14.43		487.61	11	9.5	5/8 casing	9.625				
502.04	1	46.12 1		Sh	oe Joint	9.625				
548.16	6	0.90	1	Gu	ide Shoe			9.625		
549.06	6			-						
						Cement Detail				
Cement Co	mpany:	BJ	- P. S.		THE COLUMN TWO CONTROL OF THE COLUMN		The second of th	THE RESERVE OF THE PERSON OF T	ggg - gg 1994 (1911) Arbit ramake, stants communication	
for the same of th	# of Sacl		ght (ppg)	Yield	Volume (ft³)		Description - Slurry Class and Additives			
Slurry 1	270		15.8	1.17	315.9	Class G+2%kcl+.25#CF				
a							Cement To Surface?			
		No			es					
BHT:			0)				
Initial Circulation Pressure:			_	Plugs Bumped? Pressure Plugs Bumped:				lo		
Initial Circulation Rate:						78				
Final Circulation Pressure:							lo lo			
Final Circulation Rate: Displacement Fluid: Water			Vater			N	lo			
Displacement Fluid: Water Displacement Rate:			· · alci		Casing Reciprocated? Casing Rotated?					
Displacemen		Δ-		38			Casing Rotated?		lo 00	
Mud Returns		···		30			Casing Wt Prior To Cement:	3.7		
Centralizer		Placem	ent				Casing Weight Set On Slips:			



Middle of first top of second and third for a total of 3.

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21836		
SUNDR	RY NOTICES AND REPORTS (ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)		
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: GMBU 2-32-8-16H	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43013509570000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT,		PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0274 FNL 1529 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNE Section: 3	HIP, RANGE, MERIDIAN: 32 Township: 08.0S Range: 16.0E Merid	ian: S	STATE: UTAH
11. CHECH	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
1/7/2013	WILDCAT WELL DETERMINATION		OTHER:
		UI OTHER	
l .	COMPLETED OPERATIONS. Clearly show a vas placed on production on hours.		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 25, 2013
NAME (8)			
NAME (PLEASE PRINT) Jennifer Peatross	PHONE NUMBE 435 646-4885	FR TITLE Production Technician	
SIGNATURE N/A		DATE 1/21/2013	

Form 3160-4 (March 2012)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: October 31, 2014

WELL COM EL HOW ON NECOMM EL HOW NEL ON AND LOC										100	5. Lease Serial No. ML-21836					
la. Type of V		∠ oi	il Well		as Well	Dry Deepen D	Other	. D D:0	C D			6. II	Indian,	Allottee or T	ribe Name	
o. Type of C	_ompletion;		ew well her:	Ш м	ork Over	☐ Deepen ☐	J Plug Back	ווען 🗀 וווען	i. Kesvr.,				7. Unit or CA Agreement Name and No. UTU87538X			
2. Name of O	2. Name of Operator NEWFIELD PRODUCTION COMPANY											8. L	ease Nar	ne and Well 2-8-16H	No.	
3. Address	Address ROUTE #3 BOX 3630 3a, Phone No. (include area code) MYTON, UT 84052 Ph: 435-646-3721											9. A	PI Well	No.		
	4. Location of Well (Report location clearly and in accordance with Federal requirements)*											10.	013-509 Field and	Pool or Ext	oloratory	
											МО	NUME	NT BUTTE			
At surface 274' FNL 1529' FEL (NW/NE) SEC 32 T8S R16E											11.	Survey o	R., M., on B	32 T8S R16E		
At top pro	d. interval r	eported	below 8	858' FN	L 1962' F	EL (NW/NE)	SEC 32 T8	BS R16E				12.	County o	r Parish	13. State	
At total de	87' FS	SL 1082	2' FWL	(SW/S	W) SEC	32 R8S R16E						DU	CHESN	E	UT	
14. Date Spt 10/25/2012	idded 2		11	Date T. /23/20				D&A		dy to Pro		568	4' GL 5	ıs (DF, RKI 696 ' KB	3, RT, GL)*	
18. Total De		1106			19. Ph	•	MD 1096 TVD	60'	20	Depth E	Bridge I		MD TVD			
21. Type El DUAL IND	ectric & Oth	er Mech	anical Lo			by of each) LIPER, CMT E	BOND		22	Was D	ST run?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 🗆	Yes (Submit Yes (Submit Yes (Submit	report)	
23. Casing	and Liner R	ecord (Report a	ll string:	s set in wel	1)								1 to (buomit		
Hole Size	Size/Gra		Wt. (#/ft.)	To	op (MD)	Bottom (MD		Cementer Depth	No. of Type of			urry Vol. (BBL)	Cem	ent Top*	Amount Pulled	
13-1/2"	9-5/8" J-	_	6	0'		549'			270 CLA							
8-7/8"	7" L-80	$ \frac{1}{2}$	6	0'		5956'	-		240 Bon 450 Vers		-		1864'			
6-1/4"	4.5" I-80	1	1.6	5028	<u>'</u>	11055'	-		460 Elas		-					
24. Tubing Size		Set (MD)) Pac	ker Dept	h (MD)	Size	Depth	Set (MD)	Packer De	epth (MD)	r	Size	Dent	h Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@	5009'		5003'				3								
25. Producii	ng Intervals Formation			Т	op	Bottom		Perforation			Size	I No.	Holes		Perf. Status	
A) Green F				6086'	op	10871'	_	Perforated Interval 6086' - 10871' MD			0.34 306		110103		1 Cit. Status	
B)																
C)										_						
D) 27. Acid, Fr	eacture Tree	tment (Coment	Zamaaza	ato							_1				
	Depth Inter		coment.	oqueeze,	ctc.			R	Amount and	d Type of	Materi	al				
6086' - 108	871' MD		!	rac w/	3,224,06	5#s of 30/50	sand in 50	,936 bbls	of Lightni	ing 17 flu	ıid, in	17 stages.				
-																
			-													
28. Producti			- In		lou	To .	law.	lou o		Lo						
Date First Produced	Test Date	Hours Tested	Test Prod		Oil BBL	Gas MCF	Water BBL	Oil Gra Corr. A		Gas Gravity		Production N				
1/7/2013	1/17/13	24		•	241	77	439			111.0	JET PUMP		-			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 H Rate		Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	,		Well Status PRODUCING					
28a. Produc	tion - Interv	ral B			L	I.					_					
Date First Produced		Hours Tested	Proc	luction	Oil BBL	Gas MCF	Water BBL	Oil Gra Corr. A		Gas Gravity		Production N	Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 H Rate		Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	1	Well Sta	atus					

^{*(}See instructions and spaces for additional data on page 2)

Sundry Number: 49688 API Well Number: 43013509570000 28b. Production - Interval C Date First Test Date Production Method Oil Gravity Hours Test Gas Water Gas Produced Tested Production BBL MCF BBL Corr. API Gravity Choke Gas/Oil Well Status Tbg. Press. Csg. 24 Hr. Oil Gas Water Size Flwg. Rate BBL MCF BBLRatio Press. 28c. Production - Interval D Date First Test Date Water Oil Gravity Gas Production Method Hours Test Gas MCF BBL Produced Tested Production BBL Corr. API Gravity Choke Tbg. Press. 24 Hr. Oil Gas Water Gas/Oil Well Status Csg. Size Flwg. Rate BBL MCF BBL Ratio Press. ST 29. Disposition of Gas (Solid, used for fuel, vented, etc.) 30. Summary of Porous Zones (Include Aquifers): 31. Formation (Log) Markers GEOLOGICAL MARKERS Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries. Тор Formation Top Name Bottom Descriptions, Contents, etc. Meas. Depth GARDEN GULCH MARK 4271' POINT 3 4534' X MRKR 4794' Y MRKR 4830' DOUGLAS CREEK 4946 **BICARBONATE** 5183 **B LIMESTONE** 53011 LODC 5584 32. Additional remarks (include plugging procedure): 33. Indicate which items have been attached by placing a check in the appropriate boxes: Electrical/Mechanical Logs (1 full set req'd.) Geologic Report ☐ DST Report Directional Survey ☐ Sundry Notice for plugging and cement verification Core Analysis Other: Drilling daily activity 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions) Name (please print) Heather Calder Regulatory Technician Title

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Signature The Signature

Date 04/02/2014

(Continued on page 3) (Form 3160-4, page 2)

Newfield Exploration Company

Duchesne County, UT Sec. 32-T8S-R16E GMBU 2-32-8-16H

Plan A Rev 2

Survey: Sperry MWD Surveys

Sperry Drilling ServicesStandard Report

16 November, 2012

Well Coordinates: 7,201,101.76 N, 2,021,122.63 E (40° 04' 51.38" N, 110° 08' 21.63" W)

Ground Level: 5,682.00 ft

Local Coordinate Origin:

Centered on Well GMBU 2-32-8-16H

Viewing Datum:

RKB 13' @ 5695.00ft (RKB 13' (Capstar 329))

TVDs to System:

N

North Reference:

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied Version: 2003.16 Build: 431

Newfield Exploration Company

HALLIBURTON

Duchesne County, UT

Survey Report for GMBU 2-32-8-16H - Sperry MWD Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
589.00	0.13	146.72	589.00	-0.56	0.37	0.31	0.02	
619.00	0.14	99.00	619.00	-0.59	0.42	0.32	0.37	
650.00	0.42	100.94	650.00	-0.62	0.57	0.27	0.90	
695.00	0.38	82.01	695.00	-0.63	0.88	0.13	0.31	
740.00	0.33	146.53	740.00	-0.72	1,10	0.10	0.85	
786.00	0.20	151.47	786.00	-0.90	1.21	0.21	0.29	
876.00	0.40	123.50	876.00	-1.21	1.55	0.32	0.27	
967.00	0.47	193.30	966.99	-1.75	1.73	0.70	0.55	
1,057.00	0.26	144.34	1,056.99	-2.27	1.76	1.15	0.40	
1,148.00	0.21	149.79	1,147.99	-2.59	1.97	1.32	0.06	
1,239.00	0.14	35.99	1,238.99	-2.64	2.11	1.30	0.32	
1,329.00	0.27	152.43	1,328.99	-2.74	2.28	1.31	0.39	
1,420.00	0.20	138.05	1,419.99	-3.05	2.48	1.48	0.10	
1,511.00	0.21	107.98	1,510.99	-3.22	2.75	1.50	0.12	
1,601.00	0.24	30.41	1,600.99	-3.11	3.00	1.28	0.31	
1,692.00	0.15	305.47	1,691.99	-2.87	3.00	1.08	0.30	
1,782.00	0.21	30.49	1,781.99	-2.66	2.99	0.90	0.27	
1,873.00	0.30	224.40	1,872,99	-2.69	2.90	0.96	0.56	
1,963.00	0.40	225.14	1,962,99	-3.08	2.52	1.49	0.11	
2,054.00	0.64	252.57	2,053.98	-3.45	1.81	2.16	0.37	
2,145.00	0.77	225.05	2,144.98	-4.04	0.89	3.11	0.39	
2,235.00	1,00	226.37	2,234.96	-5.01	-0.11	4.44	0.26	
2,326.00	1.16	238.16	2,325.95	-6.04	-1.46	6.00	0.30	
2,417.00	0.95	220.10	2,416.93	-7.10	-2,73	7.54	0.43	
2,507.00	1.34	233.28	2,506.92	-8.30	-4.06	9.23	0.52	
2,552.00	1.14	251.41	2,551.91	-8.76	-4.90	10.04	0.97	
2,598.00	1.08	246.43	2,597.90	-9.08	-5.73	10.72	0.25	
2,643.00	1.13	262.56	2,642.89	-9.31	-6.56	11.32	0.70	
2,688.00	1.23	256.84	2,687.88	-9.48	-7.47	11.90	0.34	
2,734.00	0.84	263.45	2,733.87	-9.63	-8.29	12.43	0.89	
2,779.00	0.18	162.43	2,778.87	-9.73	-8.59	12.67	1.98	
2,870.00	0,62	168.63	2,869.87	-10.35	-8.45	13.14	0.49	
2,960.00	0.71	178.25	2,959.86	-11.38	-8.34	13.99	0.16	
3,051.00	0.84	198.31	3,050.85	-12.58	-8.53	15.14	0.33	
3,141.00	0.98	184.96	3,140.84	-13.97	-8.81	16.49	0.28	
3,232,00	0.91	188.81	3,231.83	-15.46	-8.99	17.88	0.10	
3,323.00	1.05	180.95	3,322.82	-17.01	-9.11	19.30	0.21	
3,413.00	1.23	200.36	3,412.80	-18.74	-9.46	20.98	0.47	
3,504.00	0.38	214.54	3,503.79	-19.91	-9.97	22.25	0.95	
3,595.00	0.35	254.35	3,594.79	-20.23	-10.41	22.74	0.27	
3,685.00	0.34	207.31	3,684.79	-20.54	-10.80	23.20	0.31	
3,776.00	0.63	210.45	3,775.78	-21.21	-11.17	23.97	0.32	
3,866.00	0.85	232.88	3,865.77	-22.04	-11.96	25.08	0.40	
3,957.00	1.25	192.20	3,956.76	-23.42	-12.71	26.64	0.90	
4,048.00	0.28	319.55	4,047.75	-24.22	-13.06	27.52	1.58	
4,138.00	0.51	290,52	4,137.75	-23.91	-13,58	27.50	0.33	
4,229.00	0.42	265.95	4,228.75	-23.79	-14.29	27.73	0.24	
4,319.00	0.64	242.40	4,318.74	-24.05	-15.06	28.33	0.34	
4,410.00	1.19	232.92	4,409.73	-24.86	-16.27	29.62	0.62	

Newfield Exploration Company

Duchesne County, UT

Survey Report for GMBU 2-32-8-16H - Sperry MWD Surveys

HALLIBURTON

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	₩.
4,501.00	1.29	244.18	4,500.71	-25.87	-17.94	31.31	0.29	
4,591.00	0.83	213.86	4,590.70	-26.85	-19.22	32.79	0.79	
4,682.00	0.62	222.31	4,681.69	-27.77	-19.92	33.92	0.26	
4,773.00	0.88	220.85	4,772.68	-28.66	-20.71	35.08	0.29	
4,863.00	1.68	225.20	4,862.66	-30.11	-22,09	37.03	0.89	
4,954.00	0.89	234.30	4,953.64	-31.46	-23.61	38.94	0.89	
5,033.00	0.76	222.34	5,032.63	-32,21	-24.47	40.00	0.27	
5,092.00	2.46	213.71	5,091.60	-33.55	-25.43	41.65	2.90	
5,137,00	6.61	215.98	5,136.45	-36.45	-27.49	45.18	9.23	
5,182.00	10.77	214.85	5,180.92	-42.00	-31.42	51,93	9.25	
5,227.00	14.65	213.70	5,224.81	-50.19	-36.98	61.79	8.64	
5,273.00	18.59	216.27	5,268.88	-60.94	-44.55	74.86	8.71	
5,318.00	22.45	216.30	5,311.02	-73.66	-53.88	90.49	8.58	
5,363.00	25.66	216.98	5,352.11	-88.37	-64.83	108.66	7.16	
5,409.00	29.93	216.78	5,392.79	-105.52	-77.70	129.89	9.28	
5,454.00	33.79	218.66	5,431.00	-124.29	-92.24	153.34	8.86	
5,499.00	38.62	219.73	5,467.30	-144.88	-109.05	179.47	10.82	
5,544.00	44.06	219.28	5,501.08	-167.81	-127.94	208.66	12.11	
5,590.00	50.02	218.01	5,532.41	-194.10	-148.94	241.81	13.11	
5,635.00	55,51	216.69	5,559.63	-222.58	-170.66	277,22	12.42	
5,680.00	60.32	215.35	5,583.53	-253.41	-193.06	315.03	10.98	
5,726.00	65.82	216.20	5,604.36	-286.67	-217.03	355.71	12.07	
5,771.00	70.91	216.43	5,620.94	-320.36	-241.80	397.16	11.32	
5,816.00 5,862.00	74.67 79.54	216.52 216.79	5,634.25 5,644.52	-354.92 -390.88	-267.35 204.11	439.75	8.36	
5,907.00	85.46	216.79	5,644.52 5,650.39	-426.69	-294.11 -320.69	484.15 528.33	10.60 13.19	
5,932.00	89.19	215.86	5,651.55	-446.86	-335.41	553.09	15.19	
6,006.00	92.25	215.20	5,650.62	-507.07	-378.40	626.55	4.23	
6,037.00	92.93	215.18	5,649.22	-532.38	-396.25	657.33	2.19	
6,069.00	93.36	215.19	5,647.47	-558.49	-414.66	689.08	1.34	
6,100.00	93.66	215.30	5,645.57	-583.76	-432.52	719.82	1.03	
6,131.00	93.96	215.40	5,643.51	-608.99	-450.41	750.55	1.02	
6,163.00	94.17	215.32	5,641.24	-635.02	-468.88	782.25	0.70	
6,194.00	94.07	215.06	5,639.01	-660.29	-486.70	812.98	0.90	
6,226.00	94.41	214.91	5,636.65	-686.43	-505.00	844.70	1.16	
6,258.00	93.83	215.27	5,634.35	-712.55	-523.35	876.42	2.13	
6,290.00	93.29	215.24	5,632.36	-738.63	-541.78	908.15	1.69	
6,322.00	92.28	215.37	5,630.81	-764.72	-560.25	939.91	3.18	
6,354.00	91.21	215.58	5,629.83	-790.76	-578,82	971.67	3.41	
6,385.00	91.08	215.80	5,629.21	-815.94	-596.90	1,002.44	0.82	
6,417.00	91.44	216.04	5,628.51	-841.84	-615.67	1,034.18	1.35	
6,449.00	91.75	216.30	5,627.62	-867.67	-634.55	1,065.90	1.26	
6,481.00	92.12	216.30	5,626.54	-893.44	-653.48	1,097.60	1.16	
6,513.00	92.38	216.45	5,625.28	-919.19	-672.44	1,129.29	0.94	
6,545.00	92.86	216.60	5,623.82	-944.87	-691.47	1,160.96	1.57	
6,577.00	93.19	216.47	5,622.13	-970.55	-710.49	1,192.63	1.11	
6,609.00	92.15	216.55	5,620.64	-996.24	-729.51	1,224.30	3.26	
6,641.00	90.94	216.62	5,619.78	-1,021.93	-748.57	1,255.99	3.79	
6,673.00	90.91	216.44	5,619.26	-1,047.64	-767.62	1,287.69	0.57	
6,705.00	90.91	216,21	5,618.75	-1,073.42	-786.57	1,319.40	0.72	

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HALLIBURTON

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	•
6,736.00	90.97	216.19	5,618.24	-1,098.43	-804.88	1,350,14	0.20	
6,767.00	91.28	216.14	5,617.63	-1,123.45	-823.17	1,380.87	1.01	
6,798.00	91.24	216.17	5,616.95	-1,148.47	-841.45	1,411.60	0.16	
6,830.00	91.38	216.03	5,616.22	-1,174.32	-860.30	1,443.33	0.62	
6,861.00	91.58	216.28	5,615.42	-1,199.34	-878.59	1,474.06	1.03	
6,893.00	91,85	216.44	5,614.46	-1,225.10	-897.55	1,505.77	0.98	
6,924.00	92.08	216.59	5,613.40	-1,250.00	-915.98	1,536.46	0.89	
6,956.00	92,62	216.74	5,612.09	-1,275.65	-935.08	1,568.13	1.75	
6,987.00	92.75	216,76	5,610.64	-1,300.46	-953.60	1,598.79	0.42	
7,019.00	92.99	216.80	5,609.03	-1,326.06	-972.74	1,630.44	0.76	
7,050.00	93.53	216.95	5,607.27	-1,350.82	-991.31	1,661.08	1.81	
7,082.00	94.03	217.13	5,605.16	-1,376.30	-1,010.55	1,692.67	1.66	
7,114.00	93,36	216.74	5,603.10	-1,401.83	-1,029.73	1,724.28	2.42	
7,146.00	92.38	216.25	5,601.50	-1,427.52	-1,048.74	1,755.95	3.42	
7,178,00	92.49	216.20	5,600.14	-1,453.31	-1,067.64	1,787.65	0.38	
7,209.00	92.72	216.25	5,598.73	-1,478.30	-1,085.94	1,818.35	0.76	
7,242.00	92,89	216.40	5,597.11	-1,504.85	-1,105.46	1,851.02	0.69	
7,274.00	92.82	216.17	5,595.52	-1,530.61	-1,124.38	1,882.71	0.75	
7,307.00	93.06	216.39	5,593.83	-1,557.18	-1,143.88	1,915.38	0.99	
7,339.00	93.36	216.55	5,592.03	-1,582.87	-1,162.87	1,947.04	1.06	
7,370.00	93.46	216.46	5,590.19	-1,607.75	-1,181.28	1,977.70	0.43	
7,403.00	93.73	216.49	5,588.12	-1,634.23	-1,200.86	2,010.34	0.82	
7,434.00	93.93	216.54	5,586.05	-1,659.09	-1,219.26	2,040.98	0.66	
7,466.00	93.19	216.67	5,584.06	-1,684.73	-1,238.31	2,072.62	2.35	
7,497.00	91.88	216.54	5,582.69	-1,709.59	-1,256.77	2,103.30	4.25	
7,530.00	92.11	216.54	5,581.54	-1,736.09	-1,276.41	2,135.97	0.70	
7,561.00	92.39	216.54	5,580.33	-1,760.97	-1,294.85	2,166.66	0.90	
7,592.00	92.28	216,26	5,579.06	-1,785.91	-1,313.23	2,197.36	0.97	
7,624.00	92.62	216.16	5,577.70	-1,811.70	-1,332.12	2,229.06	1.11	
7,656.00 7,688.00	92.75 92.62	216.54 216.46	5,576.20 5,574.70	-1,837.45 -1,863.14	-1,351.06 -1,370.08	2,260.74 2,292.42	1.25 0.48	
	92.59	216.40	•	-1,888.86			0.48	
7,720.00	92.96		5,573.24		-1,389.06	2,324.10		
7,752.00		216.63	5,571.69	-1,914.55	-1,408.08	2,355.76	1.34	
7,783.00	93.12	216.66	5,570.05	-1,939.38	-1,426.56	2,386.43	0.53	
7,816.00 7,847.00	93.63 92.96	216.52 216.79	5,568.11 5,566.33	-1,965.83 -1,990.66	-1,446.20 -1,464.67	2,419.06 2,449.72	1.60 2.33	
7,879.00	92.79	216.83	5,564.72	-2,016.25	-1,483.82	2,481.36	0.55	
7,911.00	92.89	216.56	5,563.14	-2,041.88	-1,502.92	2,513.01	0.90	
7,942.00	92.96	216.57	5,561.55	-2,066.74	-1,521.36	2,543.68	0.23	
7,975.00	91.78	216.74	5,560.19	-2,093.19	-1,541.05	2,576.34	3.61	
8,007.00	91.71	216.66	5,559.21	-2,118.84	-1,560.16	2,608.02	0.33	4
8,039.00	91.84	216.50	5,558.22	-2,144.52	-1,579,22	2,639.70	0.64	
8,071.00	92.08	216.40	5,557.13	-2,170.25	-1,598,22	2,671.40	0.81	
8,102.00	92.49	216.50	5,555.89	-2,195,16	-1,616.63	2,702.09	1.36	
8,134.00	92.82	216.42	5,554.41	-2,220.87	-1,635.62	2,733.77	1.06	
8,166.00	93.29	216.62	5,552.70	-2,246.55	-1,654.64	2,765.43	1.60	
8,198.00	93.49	216.42	5,550.81	-2,272.23	-1,673.65	2,797.08	0.88	
8,229.00	92.25	216.48	5,549.26	-2,297.13	-1,692.04	2,827.76	4.00	
8,260.00	91.78	216.36	5,548.17	-2,322.06	-1,710.44	2,858.46	1.56	
8,292.00	92.32	216.49	5,547.03	-2,347.79	-1,729,43	2,890.15	1.74	
8,324.00	92.62	216.54	5,545.65	-2,373.49	-1,748.45	2,921.83	0.95	

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Meası Dep (ft)	th	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	-
	55.00	92.79	216.68	5,544.18	-2,398.34	-1,766.92	2,952.50	0.71	
	87.00	93.06	216.70	5,542.55	-2,423.97	-1,786.01	2,984.16	0.85	
	19.00	93.33	216.78	5,540.77	-2,449,57	-1,805.12	3,015.80	0.88	
	51,00	93.70	216.77	5,538.81	-2,475.16	-1,824.24	3,047.42	1.16	
8,48	83.00	92.58	216.64	5,537.05	-2,500.77	-1,843.34	3,079.07	3.52	
8,5	15.00	92.42	216.75	5,535.66	-2,526.41	-1,862.44	3,110.73	0.61	
8,54	47.00	92.18	215.02	5,534.37	-2,552.31	-1,881.19	3,142.45	5.45	
8,5	79.00	92.11	213.75	5,533.17	-2,578.70	-1,899.24	3,174.27	3.97	
8,6	10.00	92.32	213.35	5,531.98	-2,604.52	-1,916.36	3,205.14	1.46	
	42.00	92.32	212.61	5,530.68	-2,631.34	-1,933.77	3,237.03	2.31	
8,69	91.00	92.32	211.60	5,528.70	-2,672.81	-1,959.79	3,285.90	2.06	
	23.00	91.91	210.31	5,527.52	-2,700.23	-1,976,24	3,317.86	4.23	
	54.00	91.81	209.42	5,526.51	-2,727.10	-1,991.67	3,348.83	2.89	
	87.00	92.05	209.05	5,525.40	-2,755.88	-2,007.77	3,381.81	1.34	
	24,00	91.51	207.76	5,524.25	-2,788.41	-2,025.37	3,418.79	3.78	
	56.00	91.68	207.49	5,523.36	-2,816.75	-2,040.20	3,450.78	1.00	
	87.00	91.81	206.07	5,522.41	-2,844.41	-2,054.16	3,481.74	4.60	
	18.00	92.25	204.80	5,521.32	-2,872.39	-2,067.46	3,512.67	4.33	
	49,00	92.38	203.93	5,520.06	-2,900.61	-2,080.24	3,543.56	2.84	
	81.00	93.09	203.74	5,518.54	-2,929.84	-2,093.16	3,575.40	2.30	
	13.00	92,28	202.35	5,517.04	-2,959.26	-2,105.67	3,607.21	5.02	
	46.00	92,05	201.48	5,515.79	-2,989.85	-2,117.98	3,639.95	2.73	
	77.00	92.08	200.38	5,514.67	-3,018.78	-2,129.05	3,670.64	3.55	
	10.00	92.31 92,02	199.28	5,513.41	-3,049.80	-2,140.23	3,703.22	3.40	
	41.00		198.40	5,512.24	-3,079.12	-2,150.24	3,733.73	2.99	
	72.00	91.68	197.59	5,511.24	-3,108.59	-2,159.81	3,764.17	2.83	
	05.00	92,32 92.55	196.35	5,510,09	-3,140.13	-2,169.43	3,796.46	4.23	
	36.00 67.00	92.55	195.69	5,508,77	-3,169.90	-2,177.98	3,826.67	2.25	
	00.00	91.95	195,71 195.32	5,507.41 5,506.13	-3,199.72 -3,231.49	-2,186.36 -2,195.18	3,856.84 3,888.94	0.20 2.02	
-	31.00	92.18	195.06	5,505.13	-3,261.39	-2,195.18 -2,203.30	3,919.06	1.12	
	63.00	92.16	194.71	5,503.58	-3,292,28		3,950.10	2.67	
	94.00	93.60	194.55	5,503.56	-3,322.23	-2,211,51 -2,219.33	3,980.10	2.13	
	25.00	92.82	195.10	5,500.07	-3,352.15	-2,227.25	4,010.15	3.08	
9,4	57.00	92.65	195.96	5,498.54	-3,382.94	-2,235.80	4,041.27	2.74	
9.48	88.00	92.99	196.28	5,497.02	-3,412.69	-2,244.40	4,071.49	1.51	
9,5	21.00	93.83	196.68	5,495.05	-3,444.28	-2,253.75	4,103.68	2.82	
9,5	53.00	92.35	196.60	5,493.33	-3,474.89	-2,262.90	4,134.92	4.63	
	85.00	91.17	196.43	5,492.34	-3,505.56	-2,271.99	4,166.18	3.73	
9,6	17.00	91.95	196.58	5,491.47	-3,536.23	-2,281.08	4,197.44	2.48	
9,6	48.00	92.52	196.61	5,490.26	-3,565.91	-2,289.92	4,227.72	1.84	
9,6	80.00	92.92	196.32	5,488.75	-3,596.57	-2,298.98	4,258.95	1.54	
9,7	12.00	93.56	196.94	5,486.94	-3,627.18	-2,308.13	4,290.19	2.78	
9,74	43.00	94.37	197.24	5,484.79	-3,656.74	-2,317.21	4,320.48	2.79	
9,7	75.00	93.93	197.58	5,482.48	-3,687.19	-2,326.76	4,351.77	1.74	
9,8	07.00	93.16	197.10	5,480.50	-3,717.68	-2,336.28	4,383,08	2.83	
9,8	39.00	91.75	197.09	5,479.13	-3,748.24	-2,345.68	4,414.39	4.41	
9,8	70.00	92.12	196.90	5,478.08	-3,777.87	-2,354.74	4,444.72	1.34	
	01.00	93.12	196.76	5,476.67	-3,807.51	-2,363.70	4,475.03	3.26	
	27.00	94.00	197.03	5,475.05	-3,832.34	-2,371.24	4,500.42	3.54	
9,9	59.00	94.57	196.87	5,472.66	-3,862,86	-2,380.55	4,531.66	1.85	

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Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
9,991.00	93.43	196.00	5,470.43	-3,893.48	-2,389.58	4,562.85	4.48	
10,022.00	92.59	195,93	5,468.80	-3,923.24	-2,398.09	4,593.04	2.72	
10,052.00	91.68	195.67	5,467.68	-3,952.09	-2,406.25	4,622.25	3.15	
10,083.00	91.81	196.12	5,466.74	-3,981,89	-2,414.74	4,652.46	1.51	
10,115.00	91.91	195.74	5,465.70	-4,012.64	-2,423.52	4,683.65	1.23	
10,147.00	92.32	195.81	5,464.52	-4,043.42	-2,432.21	4,714.81	1.30	
10,179.00	92.69	195.53	5,463.12	-4,074.20	-2,440.85	4,745.95	1.45	
10,211.00	92.82	195.25	5,461.58	-4,105.01	-2,449.33	4,777.05	0.96	
10,242.00	93.05	195.51	5,459.99	-4,134.86	-2,457.54	4,807,17	1.12	
10,274.00	92.78	195.82	5,458.37	-4,165.64	-2,466.17	4,838.30	1.28	
10,305.00	92.42	195.75	5,456.96	-4,195.44	-2,474.59	4,868.48	1.18	
10,338.00	92.85	196.24	5,455.44	-4,227.12	-2,483.68	4,900.64	1.97	
10,369.00	93.16	195.72	5,453.82	-4,256.89	-2,492.20	4,930.83	1.95	
10,401.00	93.53	196.02	5,451.95	-4,287.61	-2,500.94	4,961.97	1.49	
10,433.00	92.25	195.59	5,450.34	-4,318.36	-2,509.64	4,993.12	4.22	
10,465,00	91.85	195.98	5,449.19	-4,349,14	-2,518.34	5,024.28	1.75	
10,496.00	91.91	195.26	5,448.18	-4,378,98	-2,526,68	5,054.46	2.33	
10,528.00	91.95	195.17	5,447.10	-4,409.84	-2,535.08	5,085.55	0.31	
10,560.00	92.05	195.34	5,445.98	-4,440.69	-2,543.49	5,116.65	0.62	
10,592.00	92.11	194.86	5,444.82	-4,471.57	-2,551.82	5,147.73	1.51	
10,623.00	92.42	194.97	5,443.60	-4,501.50	-2,559.79	5,177.80	1.06	
10,655.00	92.96	195.25	5,442.09	-4,532.36	-2,568.13	5,208.87	1.90	
10,686.00	93.09	194.94	5,440.46	-4,562.25	-2,576.19	5,238.95	1.08	
10,718.00	93.29	194.63	5,438.68	-4,593.14	-2,584.34	5,269.96	1.15	
10,750.00	92.62	195.27	5,437.03	-4,624.01	-2,592.59	5,300.99	2.89	
10,782.00	92.99	195.39	5,435.46	-4,654.84	-2,601.04	5,332.08	1.22	
10,813.00	93.06	194.80	5,433.83	-4,684.73	-2,609.10	5,362.17	1.91	
10,845.00	93.49	194.95	5,432.00	-4,715.60	-2,617.30	5,393.18	1.42	
10,877.00	93.02	195.79	5,430.18	-4,746.41	-2,625.77	5,424.27	3.00	
10,908.00	92.18	196.23	5,428.77	-4,776.18	-2,634.31	5,454.47	3.06	
10,940.00	92.22	196.29	5,427.55	-4,806.87	-2,643.26	5,485.69	0.23	
10,971.00	92.22	196.03	5,426.34	-4,836.63	-2,651.88	5,515.92	0.84	
11,003.00	92.38	196.13	5,425.06	-4,867.35	-2,660.74	5,547.12	0.59	
11,013.00	92.49	196.35	5,424.64	-4,876.94	-2,663.53	5,556.88	2.46	
11,060.00	92.49	196.35	5,422.59	-4,922.00	-2,676.75	5,602.74	0.00	
Projection /					,			

Survey Annotations

Measured	Vertical	Local Coor			
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
Vy	(·/	. ,	` '		
11,060.00	5,422.59	-4,922.00	-2,676.75	Projection At Bit	

Vertical Section Information

Angle			Origin	Orig	Start	
Туре	Target	Azimuth (°)	Туре	+N/_S (ft)	+E/-W (ft)	TVD (ft)
User	GMBU 2-32-8-16H_BHL Tgt	208.74	Slot	0.00	0.00	0.00

Newfield Exploration Company

HALLIBURTON

Duchesne County, UT

Survey Report for GMBU 2-32-8-16H - Sperry MWD Surveys

Survey tool pr	roaram
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То Survey/Plan From Survey Tool (ft) (ft)

11,060.00 589.00 Sperry MWD Surveys MWD

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
GMBU 2-32-8-16H_	0.00	0.00	0.00	0.01	0.00	7,201,101.77	2,021,122.63	40° 4' 51.380 N	110° 8' 21.630 W
- survey hits targo - Point	et center								
GMBU 2-32-8-16H_I	0.00	0.00	5,440.00	-4,922.99	-2,700.00	7,196,138.73	2,018,498.07	40° 4' 2.728 N	110° 8' 56.358 W
survey misses tPoint	arget cer	nter by 29	9.06ft at 1106	80.00ft MD (54	122.59 TVD	, -4922.00 N, -	2676.75 E)		
GMBU 2-32-8-16H_	0.00	0.00	0.00	0.01	0.00	7,201,101.77	2,021,122.63	40° 4' 51.380 N	110° 8' 21.630 W
- survey hits targ - Polygon	et center								
GMBU 2-32-8-16H_I	0.00	359.99	5,440.00	-4,923.23	-2,247.31	17,196,145.37	2,018,950.67	40° 4' 2.726 N	110° 8' 50.536 W
- survey misses t	arget cer	nter by 41	12.88ft at 109	941.07ft MD (5	5427.50 TV	D4807.90 N.	-2643.56 E)		

⁻ Point

Newfield Exploration Company

Duchesne County, UT

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North Reference Sheet for Sec. 32-T8S-R16E - GMBU 2-32-8-16H - Plan A Rev 2

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference,

Vertical Depths are relative to RKB 13' @ 5695.00ft (RKB 13' (Capstar 329)). Northing and Easting are relative to GMBU 2-32-8-16H

Coordinate System is US State Plane 1983, Utah Central Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

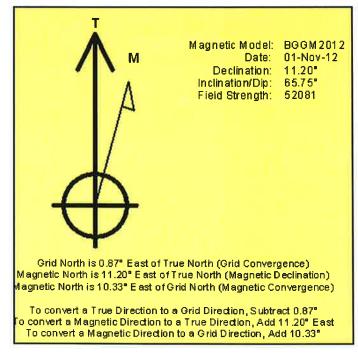
Central Meridian is 111° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 1,640,416.67ft, False Northing: 6,561,666.67ft, Scale Reduction: 0,99990801

Grid Coordinates of Well: 7,201,101.76 ft N, 2,021,122,63 ft E Geographical Coordinates of Well: 40° 04' 51.38" N, 110° 08' 21.63" W Grid Convergence at Surface is: 0.87°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,060.00ft the Bottom Hole Displacement is 5,602.77ft in the Direction of 208.54° (True).

Magnetic Convergence at surface is: -10.33° (1 November 2012, , BGGM2012)



Sundry Number: 49688 API Well Number: 43013509570000 Summary Rig Activity Page 1 of 11

Daily Activity Report

Format For Sundry GMBU 2-32-8-16H 11/1/2012 To 3/28/2013

11/29/2012 Day: 1

Completion

Rigless on 11/29/2012 - Constuction crew building battery. Instal tbg head & 5K valve. Torque & test wellhead. - Held safety meeting & discussed JSA's & location hazards. Cameron removed cap from drilling rig & hanger w/ TWCV. Installed Tbg head 11" x 7-1/16" prepped for 7" casing w/ dual, double 1-13/16" outlets (10K) & hanger w/ TWCV. Test tbg head w/ double valves 250 low for 5 min, 10,000 psi high for 10 min. RU 10k to 5K 7" spool, 5K manual valve, night cap w/ 1/2" valve. Test 5K valve & spool 250 low for 5 min, 5000 psi high for 10 min. SIFN.

Daily Cost: \$0

Cumulative Cost: \$15,519

12/1/2012 Day: 2

Completion

Rigless on 12/1/2012 - CBL well from 5200'. Instal cap. SIFN. - RD night cap. Open well w/ 0 psi on casing. CBL well from 5200' to surface W/ 1000 psi on casing. CMT @ 1864'. - RD WLT. Hauling pit water. Setting frac tanks (22 tnks total). SIFN. - Held safety meeting & discussed JSA's & location hazards. MIRU Perforators LLC WLT & crane.

Daily Cost: \$0

Cumulative Cost: \$22,139

12/3/2012 Day: 3

Completion

Rigless on 12/3/2012 - RD WH. RU drill-out stack & torque & test. - RU RMT crane & stack new WH starting from btm hanger w/ TWCV, 10K manual valve (Weatherford), 10K spool Flange to flange, 10K x 5K DSA, 5K 7-1/16" Blind rams and double 2-1/16" manual valves, 5k 7-1/16" pipe ram BOP w/ 2-3/8" rams, 5k 7-1/16" flow cross with dual, double valved 2-1/16" outlets, 5k 7-1/16" single pipe ram BOP w/ 2-3/8" rams, Washington head. - Torque all flanges. - Test Hanger & 10K valve 5 min low 250 psi, 5000 psi for 10 min. Test blind rams & top of 10k valve 250 low for 5 min. High 5000 psi fr 10 min. SIFN. Hauling tanks (38 on 2-36-8-16, 45 on 1-32-8-16, 20 on 2-32-8-16H) hauled 1 tank to each pilot locations to monitor during frac. Have 22 KCL tanks & 40 tanks fresh water hauled. Delivered pusher shack, light plant, front-end loader, man-lift. - Held safety meeting & discussed JSA's & location hazards. GE Oil tools torque down night cap, 5k valve & spool.

Daily Cost: \$0

Cumulative Cost: \$25,952

12/4/2012 Day: 4

Completion

WWS #5 on 12/4/2012 - MIRUSU. Test wellhead. Set catwalk, Unload tbg & prep. TIH w/ abrasive perforator CO to PBTD. Hauling water & frac tanks. - SD w/EOT @ 4036.35' and stab TIW vlv. Tally third row of tbg. RU kelly hose to the tbg and pump 5 bbls of 7% KCL to fill tbg and clear BPV sending returns to pit. SD pump and check flow. RD kelly hose. - Cont TIH w/ second row of 2-3/8" PH-6 tbg; stopping every 1000' to fill with 5 bbls 7% KCL. - SD and stab TIW vlv. Tally second row of tbg. RU kelly hose to the tbg and pump 12.5 bbls of 7% KCL to fill tbg and clear BPV sending returns to pit. SD pump and check flow. RD kelly hose. - Make up TTS 3.70" mill, Bit sub, 3.50" TTS Dual piston Spiral Perforator, XO sub, 4' pup jt 2-3/8" P-

Page 2 of 11 Summary Rig Activity

110 PH-6, Dual flapper BPV, 1 jt 2-3/8" P-110 PH-6 tbg. TIH w/ tbg off racks. - Trouble testing 2-1/16" valves. Test casing. Took 40 min to pressure well. Test 250 low for 5 min, 5600 high for 30 min. Unload tbg on racks. Drift all tbg. Tally to row. Set rig equipment. Test flow back tanks. RU pump lines. - RU test unit & test both sets of pipe rams, TIW valve, Have trouble testing 2-1/16" on cross-over. - Held safety meeting & discussed JSA's & location hazards. Battery crews & trucking catwalk, power swivel, MIRUSU. PU 2-3/8" pup joint & close pipe rams. Test both sets pipe rams 250 low for 5 min, 5000 high for 10 min. - Wait on rig. -RU pwr swyl. Called ITL for 700 bbls of 7% KCL. BH Cement pump on location @ 06:00. -Tagged up on it 312 @ 8921.70'. Pulled it 312 out and laid down. Stab TIW and spot in pwr swvl. - Cont TIH w/ third row of 2-3/8" PH-6 tbg; stopping every 1000' to fill with 5 bbls 7% KCL. - SD and stab TIW vlv. EOT @ 8501.14'. Tally forth row of tbg. RU kelly hose to the tbg. and pump 5 bbls of 7% KCL to fill tbg and clear BPV sending returns to pit. SD pump and check flow. RD kelly hose. - Cont TIH w/ third row of 2-3/8" PH-6 tbg; stopping every 1000' to fill with 5 bbls 7% KCL. Called BH to have cement pump on location by 07:00. - Cont TIH w/ third row of 2-3/8" PH-6 tbg; stopping every 1000' to fill with 5 bbls 7% KCL. Ran through the LT @ 5021.89'. Installed an R Nipple on the bottom of jt # 190 - 5986.53' EOT. - Cont TIH w/ second row of 2-3/8" PH-6 tbg; stopping every 1000' to fill with 5 bbls 7% KCL.

Daily Cost: \$0

Cumulative Cost: \$41,783

12/5/2012 Day: 5

Completion

WWS #5 on 12/5/2012 - TIH w/ tbg to PBTD. Circulate well. RU Baker Huges & TS. Abrasive perferate zone. C/O to PBTD. - SD and RDMO Baker Hughes Cement Pump. Cont POOH laying down tbg. SWI @ lower master crowne vlv. RD tbg equipment, RD floor, Rack out pump and lines. - RU BH cement pump. Perform injection test. Pressure test lines to 5K. Open psi: 0. Breakdown: 3548 psi @ 3 BPM and 23.1 bbls total pumped. Charted injection test for pressures, volume, and breakdown. Notified Engineering. - Pull out it 349. RD pwr swyl and POOH to jt 157. EOT @ 4945.42'. Trickled 7% KCL down the backside to keep hole full. -Started circulating while turning the string @ 4 bpm. Pumped WBV 2X for a total of 524 bbls of 7% KCL. - RD TTS. Circulate 37 bbls water. TIH w/ tbg to tag @ '10960.45. Handed location supervision and reporting over to Jim O'Lexey NFX - Held safety meeting & discussed location hazards. Swivel broke fitting on return line. Swivel through tight spot @ 8921'. -Pressure test lines to 8000 psi. Pump 6400 psi broke back to 4984 psi @ 2 bpm. Shut down & replaced suction hose to TTS unit. - RU Baker Hughes pump & TTS abrasive perf unit. Drop ball. Held safety meeting & discussed job. Test lines to 4000 psi. Pump 15 bbls to seat ball. 1.8 bpm pressure out @ 4000 psi. - Pick-up tbg TIH to tag PBTD @ 10,966' w/ no fill. Circulate 250 bbls 7% KCL water. Displace 2% KCL wtr to pit. - TIH w/ 3 its 315 ttl RU swivel again. Circulate 40 bbls 7% KCL wtr. Swivel through tight spot. - Start sand & cut holes @ 10,870' to 10,871', 10,865'-10,866', 10,860'-10861' w/ 3600#'s sand w/ 220 ttl bbls water. Final pressure was 2000 psi @ 3 bpm.

Daily Cost: \$0

Cumulative Cost: \$118,003

12/6/2012 Day: 6

Completion

WWS #5 on 12/6/2012 - RDMOSU. Load out rig equipment. Haul tnks & water. Empty pit. RU flow back. RU frac tree. - RD wellhead. RU 10K HCL valve, 10K 7-1/16" spool, 10K flowcross with dual double 2-1/16 valves, 10K manual crown valve, 10K cap. Torque all flanges. RU Pure energy flow back. Set Baker Hughes sand masters. - Held safety meeting & dicussed location hazards. RDMOSU. - Load out tbg on trailers. Move rig equipment off. Move frac tnks on location (30) ttl on location. Lack 8 tnks from having all tnks set on all locations.

Daily Cost: \$0

Cumulative Cost: \$971,004

Sundry Number: 49688 API Well Number: 43013509570000

Summary Rig Activity

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12/7/2012 Day: 7 Completion

Rigless on 12/7/2012 - Test frac tree. Test flow back equipment. Well on on lite vacuum. Haul sand & fresh water. All KCL wtr is hauled. All tanks are hauled. 13 more tks fresh water to haul on main location. - Finish haul wtr & sand for frac. - Held safety meeting & discussed location hazards of trks on location & battery crew & welders. RU GE Oil Tools & finish testing flow cross valves & 10K manual valve 250 low for 5 min, 10K high for 10 min. - Test Pure flow back equipment to 250 low for 5 min. 8500 psi high for 10 min. Had several bad tests. Replace 4 valves & 6 "O" ring. Open 2-1/16" 10k casing valve, well is on lite vacuum. RU Travis water tap for supply water (flows 600 bbls an hour).

Daily Cost: \$0

Cumulative Cost: \$1,019,353

12/10/2012 Day: 8

Completion

Rigless on 12/10/2012 - RU Baker Hughes frac crew. Test lines, Set POP-OFF. Frac stgs 1 & 2. - Decided to get another Baker Hughes Blender on the way to swap out the one on location. The one rigged up on location was only getting 40-60 psi on the disc pump. RD blender on location. Wait for backup to showup. - Stage 3: Open well up @ 1930 Psi. Pumped ball and started acid w/189.5 bbls. Ball on seat @ 296.5 bbls pumped. SD- ISIP: 2323, FG: .91, 1 min: 2276, 4 min: 2178. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.3 bpm. Max pressure 2509 Psi. ok, Set Plug 2 at 10526', Perforate Stage 3 at (10468'), (10422'), (10286'). Total Volume- 226 BBL. Final pressure of 2241 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 3. - Turn well over to Baker to Frac Stage 3. - Stage 2:Frac as follows. Avg rate: 35.7 bpm, Avg press; 4713 psi, Max rate: 37.2 bpm, Max press; 5206 Psi. FG..91, ISIP: 2470 PSI, 5 MIN: 2323 psi, 10 MIN: 2268 psi. 15 MIN: 2223 psi. Total 30/50 White: 139,478 lbs. Total load to recover 4015.8. Including 226 bbl on pump down. -12-8-12 RU JW WLT. - Stage 1:Frac as follows. Avg rate: 38.4 bpm, Avg press: 3822 psi, Max rate: 38.7 bpm, Max press: 4019 Psi. FG..86, ISIP: 2223 PSI, 5 MIN: 2150 psi, 10 MIN: 2108 psi. 15 MIN: 2069 psi. Total 30/50 White: 106,552 lbs. Total load to recover 3513. - Open well w/ 0 psi on casing & pumped 20 bbls HCL 15% acid. 90 bbls ttl @ 3013 psi @ 22 bpm. Well locked up pressured out @ 5540 psi. Surge well back. Pumped into again. Pressure out again w/ 10 bbls. Surged back again Pump into again w/ no sign of blockage @ 34.5 bpm. Shut down for chemical problem. - RU Baker Hughes. Held safety meeting & discussed location hazards. To Wait on Baker hughes field tech to repair wire, Test lines to 8000 psi. Set POP-Off w/ 142 psi on line w/ 2155 psi on bottle. Set @ 5540 psi. - 12-9-12 RU Baker Hughes. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 8.5 bpm. Max pressure 5602 Psi. ok, Set Plug 1 at 10768', Perforate Stage 2 at (10730'), (10655'), (10590'). Total Volume-243 BBL. Final pressure of 1770 psi & Falling. 3-1/8" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 2. - Turn well over to Baker to Frac Stage 2

Daily Cost: \$0

Cumulative Cost: \$1,049,438

12/11/2012 Day: 9

Completion

Rigless on 12/11/2012 - Change Blender out. Frac stage 3 thru 7. - Turn well over to Baker to Frac Stage 7. turn well over to daylight Completion Foremen. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.3 bpm. Max pressure 2848 Psi. ok, Set Plug 6 at 9288', Perforate Stage 7 at (9230'), (9105'), (9000'). Total Volume-172.8 BBL. Final pressure of 2370 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf,

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Summary Rig Activity

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three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 7. - Hydraulic Fracture stage #6 as follows: Open well w/ 1431 psi. Break down 10.5 bpm @ 3189 psi. Avg rate: 40.1 bpm, Avg press: 4839 psi, Max rate: 40.7 bpm, Max press: 5183 Psi. FG.1.04, ISIP: 3200 PSI, 5 MIN: 2991 psi, 10 MIN: 2710 psi. 15 MIN: 2526 psi. Total 30/50 White: 201,774 lbs, w/ 2622.1 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to rec: 2884.5, including 207 bbl on pump down. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.5 bpm. Max pressure 2659 Psi. ok, Set Plug 5 at 9606', Perforate Stage 6 at (9515'), (9420'), (9352'). Total Volume-109 BBL. Final pressure of 1966 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 6. Turn well over to Baker to Frac Stage 6. - Held safety meeting & discussed location hazards & JSA's. RU Baker Blender. Test lines to 8000 psi. Set POP-OFF @ 5678 psi w/ 175 psi on regulator w/ 2157 on N2 bottle. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.2 bpm. Max pressure 2322 Psi. ok, Set Plug 4 at 9924', Perforate Stage 5 at (9850'), (9785'), (9650'). Total Volume-207 BBL. Final pressure of 1626 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 5. Turn well over to Baker to Frac Stage 5. - Hydraulic Fracture stage #4 as follows: Open well w/ 1528 psi. Break down 5 bpm @ 4140 psi. Avg rate: 39 bpm, Avg press: 4553 psi, Max rate: 40 bpm, Max press: 4775 Psi. FG..96, ISIP: 4745 PSI, 5 MIN: 2385 psi, 10 MiN: 2198 psi. 15 MIN: 2064 psi. Total 30/50 White: 213,595 lbs, w/ 3844 bbls of Lightning 17 fluid Total 15% FE acid 500 gal. Total load to recover 3844 bbls. Including 197 bbl on pump down. 14,695 ttl bbls to rec'd. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.3 bpm. Max pressure 2552 Psi. ok, Set Plug 3 at 10,210', Perforate Stage 4 at (10095'), (10050'), (9980'). Total Volume-208 BBL. Final pressure of 2184 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 4. - Turn well over to Baker to Frac Stage 4. - Hydraulic Fracture stage #3 as follows: Open well w/ 1600 psi. Break down 5 bpm @ 1944 psi. Avg rate: 35 bpm, Avg press: 4775 psi, Max rate: 37 bpm, Max press: 4883 Psi. FG..91, ISIP: 2505 PSI, 5 MIN: 2222 psi, 10 MIN: 2118 psi. 15 MIN: 2045 psi. Total 30/50 White: 139,936 lbs, w/ 3438 bbls of Lightning 17 fluid Total 15% FE acid 500 gal. Total load to recover 3438. Including 117 bbl on pump down. 10,851 ttl bbls to rec'd. - Hydraulic Fracture stage #5 as follows: Open well w/ 1280 psi. Break down 22.7 bpm @ 4337 psi. Avg rate: 33.3 bpm, Avg press: 4850 psi, Max rate: 38.3 bpm, Max press: 5275 Psi. FG.1, ISIP: 2938 PSI, 5 MIN: 2615 psi, 10 MIN: 2405 psi. 15 MIN: 2254 psi. Total 30/50 White: 200,020 lbs, w/ 2876 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to rec: 2888, including 207 bbl on pump down.

Daily Cost: \$0

Cumulative Cost: \$1,091,628

12/12/2012 Day: 10

Completion

Rigless on 12/12/2012 - Frac stage 7 thru 13. Heating water back up from 58*. 23-32-8-16 Injector went from 1327 psi to 1487 on tbg from 7 AM to 9:30 AM. 1500 PSI @ 6PM. - Hydraulic Fracture stage #13 as follows: Test lines to 7000 psi. Set POP-OFF @ 5504 w/ 1821 psi on bottle. Open well w/ 1774 psi. Break down 10.5 bpm @ 3185 psi. Avg rate: 41.1 bpm, Avg press: 4191 psi, Max rate: 42.5 bpm, Max press: 5013 Psi. FG. 1.0, ISIP: 2780 PSI, 5 MIN: 2637 psi, 10 MIN: 2521 psi. 15 MIN: 2421 psi. Total 30/50 White: 202,278 lbs, w/ 2528 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to recover 2756.7. Including 175.9 bbl on pump down. 40,135.2 ttl bbls to rec'd. Handed the well over to the daylights Completion Foreman. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.4 bpm. Max pressure 2005 Psi. ok, Set Plug 12 at 7459', Perforate Stage 13 at (7417'), (7310'), (7208'). Total Volume 175.9 BBL. Final pressure of 1903 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 13. Turn well over to Baker to Frac Stage 13. - Hydraulic Fracture stage #12 as follows: Test lines to 7000 psi. Set POP-OFF @ 5580 w/ 1900 psi on bottle. Open well w/ 1733 psi. Break down 10.6 bpm @ 2911 psi. Avg rate: 40.1 bpm, Avg

press: 3862 psi, Max rate: 41.1 bpm, Max press: 4879 Psi. FG. .94, ISIP: 2467 PSI, 5 MIN: 2365 psi, 10 MIN: 2300 psi. 15 MIN: 2219 psi. Total 30/50 White: 214,355 lbs, w/ 2525 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to recover 2758.9. Including 117.4 bbl on pump down. 37,378.5 ttl bbls to rec'd. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK, RIH. Pump down with max pump rate of 8.7 bpm. Max pressure 2317 Psi. ok, Set Plug 11 at 7777', Perforate Stage 12 at (7700'), (7642'), (7530'). Total Volume 117.4 BBL. Final pressure of 1921 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 12. Turn well over to Baker to Frac Stage 12. - Hydraulic Fracture stage #11 as follows: Test lines to 7000 psi. Set POP-OFF @ 5590 w/ 2051 psi on bottle. Open well w/ 1653 psi. Break down 10.5 bpm @ 4849 psi. Avg rate: 41.4 bpm, Avg press: 4320 psi, Max rate: 42.1 bpm, Max press: 4837 Psi. FG. .97, ISIP: 2593 PSI, 5 MIN: 2376 psi, 10 MIN: 2300 psi, 15 MIN: 2225 psi, Total 30/50 White: 210,853 lbs, w/ 2515 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to recover 2756.8. Including 117.4 bbl on pump down. 34,619.6 ttl bbls to rec'd. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.4 bpm. Max pressure 2256 Psi. ok, Set Plug 10 at 8049', Perforate Stage 11 at (7970'), (7954'), (7836'). Total Volume 117.5 BBL. Final pressure of 1893 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 11. Turn well over to Baker to Frac Stage 11. - Hydraulic Fracture stage #7 as follows: Open well w/ 1350 psi. Break down 30 bpm @ 4999 psi. Avg rate: 39 bpm, Avg press: 4867 psi, Max rate: 40 bpm, Max press: 5229 Psi. FG. 1.01, ISIP: 3031 PSI, 5 MIN: 3031 psi, 10 MIN: 2780 psi. 15 MIN: 2470 psi. Total 30/50 White: 212,777 lbs, w/ 2886 bbls of Lightning 17 fluid Total 15% FE acid 500 gal. Total load to recover 2886. Including 172 bbl on pump down. 23,353 ttl bbls to rec'd. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.3 bpm. Max pressure 2552 Psi. ok, Set Plug 9 at 8367', Perforate Stage 10 at (8310'), (8230'), (8150'). Total Volume 149 BBL. Final pressure of 2036 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 10. Turn well over to Baker to Frac Stage 10. - Hydraulic Fracture stage #9 as follows: Test lines to 7000 psi. Set POP-OFF @ 5578 w/ 1630 psi on bottle. Open well w/ 1783 psi. Break down 15 bpm @ 3740 psi. Avg rate: 39 bpm, Avg press: 4542 psi, Max rate: 40 bpm, Max press: 4836 Psi. FG. 1.0, ISIP: 3020 PSI, 5 MIN: 2715 psi, 10 MIN: 2549 psi. 15 MIN: 2425 psi. Total 30/50 White: 183,635 lbs, w/ 2785 bbls of Lightning 17 fluid Total 15% FE acid 500 gal. Total load to recover 2785. Including 149 bbl on pump down. 29,019 ttl bbls to rec'd. - Held PJSM, RU WL for pump down, Test to 8000 Psi, OK, RIH, Pump down with max pump rate of 9.3 bpm. Max pressure 2726 Psi. ok, Set Plug 8 at 8639', Perforate Stage 9 at (8624'), (8535'), (8456'). Total Volume 144 BBL. Final pressure of 1987 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 9. Turn well over to Baker to Frac Stage 9. - Hydraulic Fracture stage #8 as follows: Open well w/ 1894 psi. Break down 15 bpm @ 3740 psi. Avg rate: 37 bpm, Avg press: 4664 psi, Max rate: 40 bpm, Max press: 4883 Psi. FG. .98, ISIP: 2880 PSI, 5 MIN: 2476 psi, 10 MIN: 2343 psi. 15 MIN: 2237 psi. Total 30/50 White: 212,447 lbs, w/ 2881 bbls of Lightning 17 fluid Total 15% FE acid 500 gal. Total load to recover 2881. Including 161 bbl on pump down. 26,234 ttl bbls to rec'd. - Held PJSM. RU WL for pump down. Test to 8000 Psi. OK. RIH. Pump down with max pump rate of 9.3 bpm. Max pressure 2552 Psi. ok, Set Pluq 7 at 8957', Perforate Stage 8 at (8866'), (8845'), (8690'). Total Volume 180 BBL. Final pressure of 2370 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 8. Turn well over to Baker to Frac Stage 8. - Hydraulic Fracture stage #10 as follows: Test lines to 7000 psi. Set POP-OFF @ 5592 w/ 1400 psi on bottle. Open well w/ 1743 psi. Break down 10 bpm @ 3241 psi. Avg rate: 39.4 bpm, Avg press: 4360 psi, Max rate: 41 bpm, Max press: 4877 Psi. FG. .92, ISIP: 2435 PSI, 5 MIN: 2296 psi, 10 MIN: 2199 psi. 15 MIN: 2110 psi. Total 30/50 White: 221,762 lbs, w/ 2596 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to recover 2843.8. Including 141 bbl on pump down. 31,862.8 ttl bbls to rec'd.

Daily Cost: \$0

Cumulative Cost: \$1,104,016

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12/13/2012 Day: 11

Completion

Rigless on 12/13/2012 - Continue frac stages 14 thru 17. RD Baker Hughes. Flow well back. Drain RFR water transfer system. - Open well for flowback @ 10:30 PM through a 12/64" choke, 2000 psi on well. Continue flowing well. Has flowed 361 bbls water @ 54 bbls per hour on 12/64 choke @ 6 AM. Continue to flow well w/ 49,915 bbls left to return. - RD Baker Hughes frac equipment. Install night cap on top of 10K manual valve. - Hydraulic Fracture stage #17 as follows: Test lines to 6890 psi. Set POP-OFF @ 5570 w/ 1400 psi on bottle, 172 psi on regulator. Open well w/ 2062 psi. Break down 9.3 bpm @ 2984 psi. Avg rate: 40.5 bpm, Avg press: 3932 psi, Max rate: 41.3 bpm, Max press: 4491 Psi. FG. 1.0, ISIP: 2945 PSI, 5 MIN: 2796 psi, 10 MIN: 2708 psi. 15 MIN: 2622 psi. Total 30/50 White: 182,181 lbs, w/ 2399 bbls of Lightning 17 fluid. Total load to recover 2399. Including 55 bbl on pump down. 50,276 ttl bbls to rec'd. - Held PJSM. RU WL for pump down. Test to 5600 Psi. OK. RIH. Pump down with max pump rate of 9.3 bpm. Max pressure 2387 Psi. ok, Set Plug 16 at 6281', Perforate Stage 17 at (6198'), (6150'), (6083'). Total Volume 57 BBL. Final pressure of 2150 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 17. Turn well over to Baker to Frac Stage 17. - Held PJSM, RU WL for pump down. Test to 5600 Psi. OK. RIH. Pump down with max pump rate of 9.1 bpm. Max pressure 2727 Psi. ok, Set Plug 13 at 7141', Perforate Stage 14 at (7100'), (6992'), (6930'). Total Volume 174.9 BBL. Final pressure of 1900 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 14. Turn well over to Baker to Frac Stage 14. - Held PJSM. RU WL for pump down. Test to 5600 Psi. OK. RIH. Pump down with max pump rate of 9.3 bpm. Max pressure 2382 Psi. ok, Set Plug 15 at 6553', Perforate Stage 16 at (6510'), (6416'), (6390'). Total Volume 57 BBL. Final pressure of 1990 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 16. Turn well over to Baker to Frac Stage 16. - Hydraulic Fracture stage #15 as follows: Test lines to 7000 psi. Set POP-OFF @ 5677 w/ 1637 psi on bottle, 175 psi on regulator. Open well w/ 1916 psi. Break down 10.2 bpm @ 2653 psi. Avg rate: 41.6 bpm, Avg press: 3702 psi, Max rate: 41.6 bpm, Max press: 4622 Psi. FG. .92, ISIP: 2555 PSI, 5 MIN: 2453 psi, 10 MIN: 2367 psi. 15 MIN: 2299 psi. Total 30/50 White: 197,485 lbs, w/ 2679 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to recover 2679. Including 69 bbl on pump down. 45,511 ttl bbls to rec'd. - Held PJSM. RU WL for pump down. Test to 5600 Psi. OK. RIH. Pump down with max pump rate of 8.9 bpm. Max pressure 2257 Psi. ok, Set Plug 14 at 6869', Perforate Stage 15 at (6788'), (6778'), (6608'). Total Volume 69 BBL. Final pressure of 1900 psi & Falling. 2-3/4" guns at 60 degrees, 6 spf, three 1' guns 18 holes ttl. POOH, all shots fired and drop ball for stage 13. Turn well over to Baker to Frac Stage 15. - Hydraulic Fracture stage #14 as follows: Test lines to 7000 psi. Set POP-OFF @ 5720 w/ 1674 psi on bottle, 174 psi on regulator. Open well w/ 1839 psi. Break down 10.2 bpm @ 2653 psi. Avg rate: 41.6 bpm, Avg press: 3702 psi, Max rate: 41.6 bpm, Max press: 4622 Psi, FG. .92, ISIP: 2555 PSI, 5 MIN; 2453 psi, 10 MIN; 2367 psi, 15 MIN; 2299 psi, Total 30/50 White: 203,302 lbs, w/ 2679 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to recover 2679. Including 105 bbl on pump down. 42,814 ttl bbls to rec'd. -Hydraulic Fracture stage #16 as follows: Test lines to 7000 psi. Set POP-OFF @ 5664 w/ 1585 psi on bottle, 175 psi on regulator. Open well w/ 1970 psi. Break down 10.2 bpm @ 3481 psi. Avg rate: 41 bpm, Avg press: 3672 psi, Max rate: 41 bpm, Max press; 4122 Psi, FG, .98. ISIP: 2845 PSI, 5 MIN: 2708 psi, 10 MIN: 2633 psi. 15 MIN: 2553 psi. Total 30/50 White: 181,621 lbs, w/ 2366 bbls of Lightning 17 fluid Total 15% FE acid 504 gal. Total load to recover 2366. Including 60 bbl on pump down. 47,877 ttl bbls to rec'd.

Daily Cost: \$0

Cumulative Cost: \$1,257,933

12/14/2012 Day: 12

Completion

Rigless on 12/14/2012 - Flow well back. RD frac equipment. - Flowing back @ 1500 psi w/

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361 ttl on 12/64 choke. - Flowing @ 925 ps w/ 491 bbls ttl on 12/64 choke.i

Daily Cost: \$0

Cumulative Cost: \$1,341,718

12/17/2012 Day: 13

Completion

Rigless on 12/17/2012 - Flow well back. - 12/15/12 Flowing on 12/64 choke. Total flowed back was 1406 bbls. Has 925 psi on casing, shows wtr & small trace of sand (2- 5 gallon buckets of sand), no oil. 49,588 bbls left to rec'd. - 12/16/12 Flowing on 12/64 choke. Total flowed back was 2242 bbls. Has 750 psi on casing, shows wtr, no sand, no oil. 48,752 bbls left to rec'd. - 12/17/12 Flowing on 12/64 choke. Total flowed back was 2957 bbls. Has 480 psi on casing. Shows water, no sand, Flowing 30 bbls an hour, 48,037 bbls left to rec'd. - 12/18/12 Flowing on 12/64 ckoke. Total flowed back was 3606 b bls. Started making oil (6bbls ttl). Has 480 psi on casing. Flowing 25 bph. 47,388 bbls left to rec'd.

Daily Cost: \$0

Cumulative Cost: \$1,436,936

12/19/2012 Day: 15

Completion

Rigless on 12/19/2012 - Flowing well back, Building btry. Constructing shed on Jet pump. Insulating tanks. - Well flowing on 12/64 choke @ 17 bph, w/ 415 psi on casing. Made 477 bbls ttl in last 24 hours. Made 68 bbls oil in last 24 hours w/ 102 ttl bbls oil. 46,390 bbls left to rec'd. - Well flowing on 12/64 choke @ 25 bph w/ 46,867 bbls left to rec'd. 445 psi on casing. Trace of oil, no sand in last 24 hours, 521 bbls in last 24 hours. Building btry. Cleaning & hauling frac tanks. - Well flowing on 12/64 choke @ 25 bph w/ 46,867 bbls left to rec'd. 445 psi on casing. Trace of oil, no sand in last 24 hours, 521 bbls in last 24 hours. Building btry. Cleaning & hauling frac tanks. - Well flowing on 12/64 choke @ 17 bph, w/ 415 psi on casing. Made 477 bbls ttl in last 24 hours. Made 68 bbls oil in last 24 hours w/ 102 ttl bbls oil. 46,390 bbls left to rec'd.

Daily Cost: \$0

Cumulative Cost: \$2,736,939

12/20/2012 Day: 16

Completion

Rigless on 12/20/2012 - Flow well back. Insulate btry. Start engine for trace. Work on treator. Switch flow to production tanks. - Flow well back on 12/64 choke. Swithed to production tanks @ 5PM. Casing pressure climbed 35 psi in 30 minutes that we had well shutin to switch flow to production tanks (switch to treator in morning). @ 6 AM on 12-21-12 390 psi on casing flowing @ 16 BPH made 35 BO in last 24 hours for a total of 121 BO in last 7 days. Flowed 380 bbls in last 24 hours for a total of 4987 total flowed in last 7 days. 46,007 bbls EWTR. No trace of sand in last 24 hours.

Daily Cost: \$0

Cumulative Cost: \$2,743,919

12/21/2012 Day: 17

Completion

Rigless on 12/21/2012 - Flow well back. Constructing btry. Haul Left over KCL off (sale extra back to Advantage 2880 bbls). Heated water on 2 locations, Empty pit, - Well flowing on 12/64 choke @ 17 bph w/ 5379 bbls total wtr rec'd, 392 bbls rec'd in last 24 hours. 45,615 bbls left to rec'd. Trace of oil, no sand in last 24 hours. Building btry. Heated & transfer oil to btry. Fill treator & getting levels in treator. Ttl oil to date is 91 bbls. Producing threw treator. Working on gas sales.

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Daily Cost: \$0

Cumulative Cost: \$2,696,826

12/26/2012 Day: 18

Completion

WWS #5 on 12/26/2012 - Flow well back. MIRUSU. RU WLT. Set 2 kill plugs. RD WH (10K). RU 5K WH. Torque well head. - RU 5K well head & torgue well head. Set catwalk. Unload casing, SIFN, 44,444 bbls EWTR, Made 300 bbls total oil from flow back. - Instal hanger w/ TWCV, RD 10K well head leaving 10K manual valve on well. - RU JW WLT w/ lubricator. Test lub to 4200 psi. RIH w/ 4-1/2" Obsidian solid plug & set @ 5138'. Bled well down. Test Lub. RIH w/ 4-1/2" Obsidian solid plug. Set 2nd plug @ 5113'. Well stayed dead all time running second plug. - Open Hot oiler to well w/ 280 psi on casing. Pump 60 bls hot water down casing @ 2 bpm. Final pressure 480 psi. - Hot oiler got lost. Hot Oiler was broke down on location. - Held safety meeting & discussed location hazards. MIRUSU WWS #5. - 12-25-12 Well flowing on 12/64 choke, w/ 280 psi on casing. Flowing 10 bph. 6468 bbls rec'd total, made 43 BO in last 24 hours for total of 283 BO. No sign of sand. - 12-24-12 Well flowing on 12/64 choke, w/ 295 psi on casing. Flowing 10 bph. 6215 bbls rec'd total, made 52 BO in last 24 hours for total of 240 BO. No sign of sand. - 12-23-12 Well flowing w/ 295 psi on casing. Flowing 10 bph. 6215 bbls rec'd total, made 52 BO in last 24 hours for total of 240 BO. No sign of sand. - 12-22-12 Well flowing w/ 315 psi on casing. Flowing 11 bph. 5953 bbls rec'd total, made 47 BO in last 24 hours for total of 188 BO. No sign of sand. - 12-21-12 Well flowing on 12/64 choke w/ 340 psi on casing. Flowing 13 bph, made 287 bbls in 24 hours. Made 24 bbls oil in last 24 hours.

Daily Cost: \$0

Cumulative Cost: \$2,757,716

12/27/2012 Day: 19

Completion

WWS #5 on 12/27/2012 - Pressure test BOP's. Cameron still no TWCV (having trouble getting parts & charts). RU casing crew. RIH w/ Seal Assembly. Set 4-1/2" casing in 30k compression @ 5041'. - P/U tbg. Hngr. And land csg. w/ 30k comp.@ 5041' w/ ttl of 118 jts. Pup jts.As follows 1-2', 1-7', 1-9', 1 jt. 1-4' pup & tbg. Hngr. run in jam pins and attp. To test tbg. Hngr. & seal assy. Unable to catch pres. w/ G&E tester on ann. Circ. Around to 4-1/2 ID. Tie rig pump to backside to pump a 2-3 bpm rate around seals no change. - RU QT casing cleaning crew & prep casing to RIH. RU Weatherford casing tripper w/ casing crew. - Open well w/ 0 psi on casing. PU Halliburton Seal assembly. TiH w/ 4-1/2", J-55, 11.6# LTC casing (make up torque 1620 ft-lb). Circulated oil out twice on trip in hole. - Tag liner @ 5041'. Run 120 jts Space out w/ 25k comp. on on tie back sleeve P/U out of PBR 10' above R/U to circ, 100 bbls PKR fluid dwn ann. Side. - Contact Mr. Matt Mientka decision was made to proceed w/ plans. N/U BOP stack in order it was disassembled change out 4-1/2 pipe rams w/ 2-3/8 rams begin to test rams 200-300 low for 5 min. & 4500# for ten min. while also preforming shell tests on N/U BOP stack - Held safety meeting & discussed location hazards & JSA's. RU GE Oil Tools & test BOP's. Test pipe rams 250 low for 5 min. 5000 psi high for 10 min w/ casing pup jt due to not able to get donut or TWCV from Cameron. Test TIW valves. - N/U broken flange P/U on tbg. Hngr. Attepmt to land once again still tagging in the same spot, stack out on L/T again and strip off BOP stack discover lip was created in 5k to 15k x-over flange that was holding up tbg. Hngr. - Attempt to land 4-1/2 string unable to through BOP stack w/ 7-1/16 tbg. Hngr, (tagging 8' in ttls stack to to landing pins 11.6') break out tbg. Hngr. Stack out on liner top, break stack at x-over spool where we tagged to check for obstructions and cheack ID of 5k to 15k x-over nothing found

Daily Cost: \$0

Cumulative Cost: \$2,859,050

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12/28/2012 Day: 20

Completion

WWS #5 on 12/28/2012 - Finish Testing, TIH w/ work string. Pump dye to find leak. - Held safety meeting & discussed location hazards. GE Oil Tools Test BOP's & pipe rams. - Change over tbg equipment to 2-3/8". - Tally, Drift & PU TIH w/ 3.75" 4-blade Concave Junk mill (TTS), bit sub, 4' x 2-3/8" PH-6 pup jt, Dual flapper BPV, 1 jt 2-3/8" 5.95#, P-110, PH-6 tbg. RIH w/ 156 jts tbg to leave EOT @ 4940'. - Circulae 165 bbls (164 was volume of well w/ 2-3/8" tbg in 1560') of packer fluid down 7" up 4-1/2" @ 5 bpm @ 400 psi w/ 5 bpm returns to pit. Haul pit water out. SIFN.

Daily Cost: \$0

Cumulative Cost: \$2,907,061

1/2/2013 Day: 21

Completion

WWS #5 on 1/2/2013 - Start all equipment. Plug bit w/ scale. TOOH w/ tbg. Clean btm joint out. TIH w/ same BHA. RIH to 3030' rig broke dwn. (blew gasket in air comp.) - TOOH w/ tbg. Change out to Day crew. - RU to circulate tbg. Tbg is plugged. - Rig broke dwn.(blew gasket on air comp.) wait on mechanic and repair - P/U RIH w/ same BHA break circ. 1 stnd in and every 1500~ while RIH, EOT @ 3030' 96 jts. In hole - Held safety meeting & discussed location hazards & start up of equipment @ -14 degrees temperature. Had to put heaters on rig, pump, catwalk & swivel in order to start engines. - PU TIH w/ 3.75" 4-blade Concave Junk mill (TTS)-len.1.20, Bit Sub 3.13 OD-1.38 ID len. 1.00, 4' x 2-3/8" PH-6 pup it, Dual flapper BPV 2.92 OD-1.00 ID len.-1.72, 1 jt 2-3/8" 5.95# P-110, 2-3/8 RN nipple w/ 1.71 profile & 1.56 NO-GO & 2.91 OD len. 1.33, followed by 18 jts. PH-6 tbg. Pump 2 bbls to fill tbg. Plugged off again. - TOOH w/ tbg. Clean 5' of tbg scale out of dual flapper BPV w/ Hot oiler. - Pump 5 bbls water & plugged bit w/ scale. - Open well w/ 0 psi on casing. TIH w/ P-110 tbg from 4940' to tag plug @ 5128' (didn't feel anything in LT). RU Swivel, pump & tanks. Transfer water into rig equipment. - Pooh w/ BHA find small amounts of rust on flapper assy. Clear out trash

Daily Cost: \$0

Cumulative Cost: \$2,967,982

1/3/2013 Day: 22

Completion

WWS #5 on 1/3/2013 - TOOH w/ plugged tbg. TIH open ended to pickle tbg. - Pooh laying tbg. Back dwn. - R/U western chem. Pump 10 bbls 15% HCL w/ solvent & iron control additives, let soak for 30 min. reverse circ. To res. Pit w/ 70 bbls treated wtr. - Wait on HCL (pump froze up while loading) - P/U start in hole off pipe racks w/ tbg. Open ended to pickle string, ttl jts. 156 EOT 4906' - Prep. All tbg. On pipe racks to P/U & RIH (note: had 25 ttl jts. Unable to drift due to steaming out pipe and ice forming almost immediately) we will run a smaller drift to RIH then once pickled and back on pipe racks will redrift w/ full ID - POOH w/ tbg. Standing in derrick - Pump Solvent, Pump 13 bbls 15% HCL acid, Pump methanol water. Pump chemicals. Leave 30 min. Circulate 70 bbls water. - Wait on HCL acid. - TIH w/ open ended tbg. RU hot oiler & circulate 40 bbls hot water down tbg w/ 3000' tbg in hole. Continue TIH w/ tbg to 5100'. - Held safety meeting & discussed location hazards & working in -10 degree weather. Bottom joint has rust in above dual flapper BPV, won't pressure out.

Daily Cost: \$0

Cumulative Cost: \$3,032,751

1/4/2013 Day: 23

Completion

WWS #5 on 1/4/2013 - LD tbg. TIH w/ tbg to acidize. LD tbg. TIH w/ Mill & tbg. D/O plugs. -Tag #4 CBP @ 6553' D/O in 15 min. weights same still pumping 3.5 bpm @ 2000# pump 20 Sundry Number: 49688 API Well Number: 43013509570000
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bbl poly sweep role btms up & cont. in hole (note: dropping 1 poly stick every 3rd conn. To keep a visc. To D/O fluid) - Held safety meeting & discussed JSA's & working in -18? weather. LD 156 jts tbg. - PU bit sub, "RN" nipple, 1 jt tbg, "R" nipple, remaining 30 jts tbg. Pump 3 bbls 15% HCL acid. Leave 30 min. Circulate 15 bbls to pit. LD tbg on racks. - PU TIH w/ 3.75" 4-blade Concave Junk mill (TTS)-len.1.20, Bit Sub 3.13 OD-1.38 ID len. 1.00, 4' x 2-3/8" PH-6 pup jt, Dual flapper BPV 2.92 OD-1.00 ID len.-1.72, 1 jt 2-3/8" 5.95# P-110, 2-3/8 RN nipple w/ 1.71 profile & 1.56 NO-GO & 2.91 OD len. 1.33, followed by18 its. Shut down & pump 15 bbls water down tbg. Continue TIH w/ tbg. Shut down every 1000' & pump 12 bbls down tbg. - RD rig pump & tanks. RU Weatherford rig pump. RU XK-90 swivel. Had froze return line R/U H/O steam off lines and pump through all return lines while circ. .5 bpm to ensure that all lines f/ standpipe to pump stayed clear. - Tag 1st K.P. @ 5113' PU 25k, SO 24k, D/O in 15 min. pumping 3.5 bpm @ 2000# & 300# on ann. Full open choke Running 5k WOB & 120 rpm's Tag 2nd K.P @ 5138' also D/O in 15 min. seeing 145# increase in ann. Pres. Pump 1-1/2 ann. Vol. w/ 20 bbl poly sweep - Cont. in hole (All pump rates & RPM's will remain consistent unless noted otherwise) well cont. to flow @ 445# while tripping until 23:45 then lost flow recovered 300 ttl bbls. While RIH had to rotate and pump due to nose cone of CBP hanging up randomly. Install 1.71 "R" profile nipple(OD-2.91, Leng-1.22) on the top of it. #191, 6002' putting nipple @ 4958' when sitting on PBTD. - Tag 3rd CBP (flow through) @ 6281' D/O in 10 min, well still dead PU 29k SO 22k running 6k WOB pump 20 poly sweep & role btms up cont. in hole - Tag #5 @ 6870' D/O in 30 min. PU 29k SO 22k rates same pump poly sweep role btms up & cont. in hole - Tag #6 @ 7160' D/O in 19 min. PU & SO showing 7k turn around same Running 6-8k WOB pump poly sweep & btms up cont. in - Tag #7 @ 7460' D/O in 11 min. everything running same #, WOB 7k turn aroud, PU/SO, pump 20 sweep role btms up cont in. - Tag #8 of 18 @ 7777' D/O in.

Daily Cost: \$0

Cumulative Cost: \$3,066,873

1/5/2013 Day: 24 Completion

WWS #5 on 1/5/2013 - D/O plugs 8 thru 18. Circulate well clean. TOOH w/ tbg LD. - R/D Basic pwr swvl, start OOH w/ P/U weight @ 34k. Cont. to L/D work string while monitoring string weight pull to 5300' w/ well still flowing 10% oil & getting gas cut shut dwn. - Tag plug #12 @ 8965'; 8' low. Drlg out in 23 min w/ 5K WOB @ 120 rpm, 2100 psi @ 3.1 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down tbg to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. Gained 60 bbls of fluid volume. Strg wt 36K. PU 38K, SO 24K. - Cont. to L/D tbg. - Tag plug #13 @ 9296'; 8' low. Drlg out in 25 min w/ 5K WOB @ 120 rpm, 2000 psi @ 3 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down tbg to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. Gained 60 bbls of fluid volume. Strg wt 32K, 38K PU, 24K SO. - Tag plug #11 @ 8647'; 8' low. Drlg out in 14 min w/ 5K WOB @ 120 rpm, 2100 psi @ 3.1 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down tbg to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. Gained 20 bbls of fluid volume. - Tag plug #14 @ 9614'; 8' low. Drlg out in 25 min w/ 5K WOB @ 120 rpm, 2000 psi @ 3 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down tbg to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. Gained 40 bbls of fluid volume. Strg wt 32K, PU 38K, SO 26K - Tag plug #15 @ 9932'; 8' low. Drlg out in 48 min w/ 5K WOB @ 120 rpm, 2000 psi @ 3 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down tbg to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. Gained 40 bbls of fluid volume. Strg wt 32K, PU 38K, SO 26K - Tag plug #16 @ 10,218'; 8' low. Drlg out in 38 min w/ 5K WOB @ 120 rpm, 2000 psi @ 3 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down tbg to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. Gained 40 bbls of fluid volume. Strg wt 28K, PU 32K, SO 20K. - Tag plug #17 of 18 @ 10,525 D/O in 29 min. w/ 5k WOB @120 rpm, 2000 psi @ 3 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7%

Sundry Number: 49688 API Well Number: 43013509570000 Page 11 of 11 Summary Rig Activity

KCL water. Have to swivel & pump down tbg to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand Strg wt 26K, PU 34K, SO 20K. - Tag plug #18 of 18 @ 10,760 D/O in 28 min. w/ 5k WOB @120 rpm, 2000 psi @ 3 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down the to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. Strg wt 26K, PU 34K, SO18K. -Cont. to swvl & circ. Dwn. To PBTD @ 10,960 circ. 280 bbls while rotating tbg. @ 120 rpm and pump 5 ttl 20 bbls poly sweeps pumped at 3.5 bpm & pres. @ 2000# when shut dwn. Well still flowing @ 2 bpm - Tag plug #10 @ 8375'; 8' low. Drlg out in 11 min w/ 5K WOB @ 120 rpm, 2200 psi @ 3.2 bpm. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down the to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. No gain in fluid volume. - Tag plug #9; 7' low. Drlg out in 24 min w/ 5K WOB @ 120 rpm, 2200 psi @ 3.2 bpm. 7K difference in PU & SO weight. Pump 10 bbls sweep. Adding Bacteria chemical to 7% KCL water. Have to swivel & pump down the to TIH w/ pipe. Recovering 3 bpm of fluid w/ trace of oil, no gas, no sand. No gain in fluid volume. - Held safety meeting & discussed PU tbg w/ winch line & working in -16? weather. Plug #8 Drlg out in 20 min w/ 5K WOB, 120 RPM @ 3.2 bpm, @ 2200 psi. PU is 30K, SO is 24K. Pump 10 bbls sweep @ 4 bpm. Having swivel w/ pumping to go in hole. - Load H/O w/ 80 bbls 10# brine R/U to tbg. Side and pump aroud to kill well

Daily Cost: \$0

Cumulative Cost: \$3,110,326

1/6/2013 Day: 25

Completion

WWS #5 on 1/6/2013 - LD work string. RU BOP's. Torque & test wellhead. RIH w/ production string. - Held safety meeting & discussed JSA's (lay down equipment) & loaction hazards & working in -14? weather. Continue LD work string tbg. - RD BOP's. RU production head & BOP's, Load out tbg. Drain pit & tanks, - Torque wellhead & test, RU Floor, Unload new tbg. Load out Weatherford pump, Load out FMC flow back equipment, - PU BHA as follows; Wire line entry guide, 4' x 2-3/8" N-80 pup jt. WXN (1.875" ID w/ 1.791" NO-GO) profile Nipple (Prowireline w/ pressure bomb installed), 1 jt L-80 2-3/8" tbg, 4' x 2-3/8" perf sub, 4' x 2-3/8" pup jt., 4-1/2" Halliburton PLS packer w/ 1.875" "X" nipple (3.82" OD). T-2 on/off tool (skirted) for 4-1/2" casing, 4' x 2-3/8" pup j t, 3' x 2" Jet pump BHA, 2-3/4" x 4' pup jt. Tally, drift & PU off racks new 2-3/8", L-80, 4.7#, 8EUE tbg & TIH w/ 159 jts. - R/D floor & N/D BOP stack N/U wellhead & test SNFN - Set Hallibuton PLS RH set RH rls. comp. PKR w/ 10k comp. PKR C.E. @ 4963' EOT @ 5910' XN nipple w/ pres. Gauges @ 5004' & top of jet pump @ 4952'

Daily Cost: \$0

Cumulative Cost: \$3,200,467

1/7/2013 Day: 26

Completion

WWS #5 on 1/7/2013 - RDMOSU. Cleanup location. Build well head. - Held safety meeting & discussed RD w/ location hazards, Open well w/ 0 psi, RDMOSU, - Build flow lines, Start Waukasha jet pump. Pump Std valve. Test to 1500 psi w/ 30 bbls KCL 7% wtr. POP w/ 44,000 EWTR.

Daily Cost: \$0

Cumulative Cost: \$3,425,349

Pertinent Files: Go to File List